FT No. 31,435 the financial times limited 1991

Tuesday April 23 1991

D 8523A

World News **Hong Kong** losing battle of wills over new airport

Nove 2 1991

diplomatic battle with China over plans to build a \$12.5bn international airport, which Peking is refusing to back until it has achieved extensive control over the project. Page 4

Comeback planned French socialist Jean-Pierre Chevènement, who resigned as defence minister in protes against the Gulf war, is plan-ning a comeback by standing in a by-election. Page 2

Police storm square Hundreds of Romanian riot shields stormed a central Bucharest square to break up a demonstration by several thousand people.

Cholera toll fears The cholera spidemic ravaging Peru and its neighbours could kill 42,000 people and the UN alone does not have the resources to fight it, according to the head of the Panamerican

Health Organisation. Page 6 Vietnam air link Northwest Airlines will be the first US carrier to fly to Vietnam since the war ended in 1975, with a June flight to Ho Chi Minh City. Page 6

Sununu inquiry The US General Accounting Office has begun an inquiry into the dozens of trips taken by White House chief of staff John Sununu, using military aircraft. Page 6

Threat to shuttle

Preparations went ahead for fuelling the US space shuttle Discovery despite a 50-50 chance that a storm would delay its launch on a "Star

Support for divorce Nearly two out of three Irish citizens favour ending the republic's ban on divorce, an opinion poll shows. A 1986 referendum failed to win support for changing the law.

Abortion pill ban

France banned women who noke heavily or are aged ove 35 from taking a controversial abortion pill after a 31-year-old woman died of a heart attack.

UK gas leak

An accident at Britain's secret Aldermaston weapons factory leaked as much tritium gas in a few minutes as would normally escape in three months.

Ex-premier dies Yumzhagin Tsedenbal, Communist premier of Mongolia for 32 years, has died in exile in Moscow, aged 74.

Israel lifts ban The Israeli army has lifted a

ban on journalists freely entering the occupied territories imposed three months ago at the start of the Gulf war.

Military hang on

A leading member of Burma's military junta said there was no chance of a handover of . power to civilians in the foreeable future.

Secret Sikh talks Caretaker prime minister Chandra Shekhar has opened secret talks with Sikh militants in a dramatic twist to a bitter lebate over the inclusion of

Punjab in India's general elections next month. Behind bars

Geoff Muntz, 52, a former prisons minister in the Australian state of Queensland, found nimself on the other side of the bars when he was jailed for a year for misusing

Heavenly body A mysterious quasar far brighter than everything else in the universe has been discovered by British astronomers **Business Summary**

Treuhand set for DM2bn commercial paper issue

The fledgling German commercial paper market is set to receive : 12jor boost from the east German Treu-band, the state-backed privatisation agency, which is today expected to announce a commercial paper programme of up to DM2bn, arranged by Dresdner Bank, which would make it easily the largest pro gramme of its kind since the market began to take shape earlier this year. Page 18

SIEMENS, German electrical and electronics group, lost DM380m (\$227m) on its com-puter activities in the first half of the financial year to September 30 1991. Page 19

MARKETS: DAX index closed 27.46, or 1.7 per cent lower at 1,571.91, its intraday low. The eavier falls in the blue chips, said the Dresdner Bank in Frankfurt, indicated that dealers were anticipating foreign

1,700 1,600 1.500 1,400 Jul 1990 Source: Datastee

selling. However, the drop in German equity market turnover from DM5.5bn to DM5bn indicated that prices were marked down, rather than forced down by selling volume Page 18; section II

DOLLAR was very firm, particularly against the depressed D-Mark. At the Loudon close the dollar had also advanced to Y139.40 from Y138.35; to SFr1.4795 from SFr1.4705; and to FFr5.9475 from FFr5.8575. Its index rose to 67.1 from 66.3. Correncies, Page 88

TEXAS CORPORATE raider T. Boone Pickens is considering selling his 26.4 per cent stake in Koito Manufacturing, the Japanese motor parts manufacturer. Page 19

DAIMLER-BENZ, diversified German motor group, said its pre-tax profits fell by around 10 per cent last year, much of the decline caused by currency movements. Page 20

CUMMINS Engine, one of the world's leading diesel engine makers, suffered a first-quarter operating loss and warned of a further decline in the US heavy truck market. Page 21 OCCIDENTAL Petroleum

reported net first-quarter earnings of \$136m, up from \$108m a year earlier. Page 22 GUINNESS MAHON, merchant banking group, 65 per cent owned by the Bank of Yokohama, warned that it would

report a heavy loss in its interim results because of mounting bad debts. Page 19 SHIZUSHIN Lease, Japanese financial company with debts of Y255.5bn (\$186m), filed for court protection from its credi-

tors. Page 19

ISTITUTO Bancario San Paolo di Torino, big Turin-based bank, is negotiating to buy Banco Catala de Credit, a medi-um-sized Spanish bank owned by Banco Banesto. Page 20 BANCO SANTANDER, Spanish commercial bank, reported first-quarter profits up by 21

per cent. Page 20 AVON Products, world's biggest maker of cosmetics and toiletries, turned in a 20 per cent improvement in first-quar ter net income. Page 22

MARSH & McLennan, world's largest insurance broker. reported first-quarter income of \$96.6m after tax. Page 22

By Leyla Boulton in Moscow

- **ANTI-CRISIS PROGRAMME** ♦ Ban on strikes and political rallies during working hours
- Emergency measures for efficient distribution of essential foodstuffs
- ♦ Financial stabilisation measures, giving Gosbank, the central bank, power to control spending by republican governments

Republics refusing to sign union treaty to be charged for energy and raw materials

on strikes and bring rebel republics to heel. Mr Pavlov said in response: "They are right in two respects. There is a need for a special regime in certain crucial branches of the economy, such as energy and transport, and in certain regimes" to work, but it is possible to let people work with the help of force. For that purpose, we do not need the army," he said. President Mikhail Gorbaregions."
The programme, almost cerchev, who faces threats to his leadership from his own Communist party and as a result of strikes backed by opposition forces, is under pressure to opt tain to be approved by the Soviet parliament, foresees a for a coalition government capable of conducting effective lies during working hours, and an emergency system for distributing foodstuffs. It also calls for financial stabilisation

economic reform.

But Mr Pavlov, joking about his own unpopularity ("Somebody's got to do the dirty work"), rejected calls for a coefficient "This is like a die. coalition. "This is like a dia-logue between the deaf and the " he said, claiming his appeal a few months ago for alternative cabinet nominations had been ignored by the republics. He added that it was not up

combat the budget crisis and avoid hyper-inflation. Mr Pavlov stressed at a news conference that the so-called to him to decide whether to agree to the proposal by Mr Boris Yeltsin, the Russian anti-crisis programme required leader, for "round table" talks with republican leaders and opposition forces. Mr Nursulco-operation with the republics and that any use of force would be limited. In the case of the current coal strikes, for tan Nazarbayev, the president example, he suggested force could be used to allow working of Kazakhstan, said, however, that the government could not miners to cross picket lines. introduce market reforms without recognising the sover-eignty of republics. "This is our position and rejection of it "A state of emergency, or special regime, does not mean that people will be forced back

will bury any hope for co-ordinated effective actions by all members of the Federation," the told parliament yesterday.

The programme also proposes that those republics which refuse to sign a union treaty and contribute to the

Soviet premier says force may be used to implement measures

Pavlov outlines rescue plans

union budget should be charged hard currency for raw materials and energy.

Although only eight out of 15 republics have agreed to sign the treaty incorporating them into a political federation, Mr. Pavlov dismissed the alterna-tive proposal of an economic union as set out in the 500-day programme which was rejected by Mr Gorbachev last year.

"How can you deal with partners who only hear what they want to hear and ignore what they don't like?" Mr Pav-lov asked. The economic union proposal approved by the republics last year as the foundation for economic reform. committed republics to a common market and currency, a financial stabilisation programme and rapid privatisa-

tion.

Mr Gorbachev is due to discuss the draft treaty with the republics today.
Soviet disintegration "bad



Valentin Pavlov yesterday: "special regime" needed

Moscow to discuss Ecu payments system

By Peter Marsh, Economics Staff, in London

THE Soviet Union is to discuss today with three of Europe's leading banks a payments sys-tem that could ease trade among the former communist nations of eastern Europe and help them to move to a free-

MR VALENTIN PAVLOV, the

Soviet prime minister, yester-day put to parliament his pro-

the country's escalating economic crisis, and suggested that the Kremlin could resort to force to implement its mea-

Hardliners in the Soyuz

(Union) group called for a state of emergency to impose a ban on strikes and bring rebel

ban on strikes and political ral-

measures, giving Gosbank, the central bank, the power to con-trol spending by republican

Although it seeks to encour-

age privatisation and foreign investment, the plan has been criticised by the country's lead-

ing economists as too vague to

d programme to deal with

Officials from Gosbank, the Soviet state (central) bank, are meeting in Turin to talk about the concept with representatives of Deutsche Bank of Ger-many, Credit Lyonnais of France and San Paolo Bank of Italy. These three groups have indicated general support for the idea, possibly through The state banks of Poland.

Czechoslavakia and Hungary are also due to be represented at the meeting. An official from the European Commis-sion, which might support the venture financially, is taking

would use the European Currency Unit, a basket of the main west European currenunit in settling transactions between banks in eastern Europe that arise from trade payments.

It would replace the system formerly used in eastern Europe for trade-based banking settlements, which was based

on the transferable rouble. The transferable rouble was abolished earlier this year as part of the process of adopting western-style economic thinking in the former communistbloc nations. Since then, trade among the countrie region has been hit due to the lack of an alternative payments procedure.

The Ecu-based system could start in about a year, assuming planning proceeded smoothly. It would use computers and financial procedures based on an existing Ecu payments-clearing system. This was established in 1986 by a group of 45 western banks and based

tal Europe.

According to one idea under discussion, the system could be

tem handles payments of up to about Ecu30bn (\$37bn) a day. It is thought that initially the east European venture would administer a far smaller total of transactions, involving about 15 commercial banks in eastern Europe. Later, it could be extended to incorporate transactions involving banks in western Europe, so bolstering trade between the eastern and western parts of continen-

run by a consortium of east European commercial banks, possibly with help from west-

in Basie, Switzerland. This sys-

ern pariners. Representatives from four commercial banks from the former communist states have indicated an interest in this idea and are attending the Turin meeting. The banks are the International tion of the Soviet Union; Investicni Banka of Czechoslovakia; the Inter Europa Bank of Hungary; and Poland's State Savings Bank. Setting up the system would

cost about Eculm. The newly inaugurated European Bank for Reconstruction and Development has been made aware of the proposals. Treuhand investment. Page 18

Kuwaiti politics shows dark side in ballroom

By Roger Matthews

THE LIGHTS may be on again in Kuwait City, but not, it seems, for the fledgling opposition parties. Their attempt yesterday to

hold a press conference to comment on the composition of the new government, just hours before the visit of Mr James Baker, US secretary of state, left everyone literally in the dark as the plug was pul-led on the lighting system of the ballroom at the Interna-tional Hotel.

"Things are really going to get hot here now. We can already see what this new government is going to be like," said one opposition leader as his colleagues, journalists, television crews, the hotel management - and the wife of a US senator, dressed in medi-cal garb - milled in confusion around the ballroom. The seven main opposition groups had called their press confer-ence for 10am. The manage-ment of the hotel then claimed that no booking had been made, therefore no press con-ference could be beld.

On to the scene came Mrs Cindy McCain, whose every second sentence reminded the listener that her husband is Senator John McCain (Republican, Arizona). Senator McCain's political career has, apparently, not been prosper-

ing of late.

Mrs McCain was also due to give a press conference in the ballroom about the work of her American Voluntary Medi-cal Team, which she founded five years ago and which explained her attire. Sadly for Mrs McCain she failed to grasp the attention of the audience, and offered to donate the rest of her allotted time to the

opposition.
At this point, the hotel management had to come clean. There was not going to be an opposition press conference in the hotel now. or perhaps at any time. To emphasise the point, the ballroom was plunged into darkne

"It's obvious what is behind is," said Dr Sami al-Karrach an economist from the University of Kuwait, carefully avoid ing greater precision. Mr Mohammed al-Kabiri, a former ambassador who in the last eight months had the unusual Kuwait by both his own gov-ernment and Iraq, was less cautious. He said the newly constituted government was not representative of anyone.

LOOKING FOR AN EXCELLENT SITE AT THE HUB OF EUROPE?

AT&T steps up bid with paper offer valuing NCR at \$7.48bn

By Nikki Tait in New York and Alan Cane in London

AMERICAN Telephone & Telegraph, the US telecommunications group which has been locked for five months in a bid battle for NCR, the Ohiobased computer manufacturer. has increased the terms of its

offer to \$110 a share.
The new proposal, which values NCR at \$7.48bn, replaces the cash consideration by allpaper terms. As result, NCR has failed to endorse the revised proposals, although its board has yet to make any formal comment. Yesterday, NCR said it was concerned that if AT&T's share

closed, it would not be worth the full \$110 a share. Under AT&T's new proposal, which followed weekend discussions between the two companies, investors would receive 2.943 AT&T shares for every NCR share held. AT&T claimed that this was the equivalent of \$110 a share, based on its market price on Friday.

AT&T added that in order to

price fell before the offer

protect NCR investors it would be willing to offer up to 3.099 shares if the AT&T price averaged less than \$37.375 during a 20-day period ahead of an NCR shareholder meeting to vote on pares with the \$90-a-share offer which started the bidding in December, and valued NCR at Conversely, if the AT&T price averaged more than \$37.375 in the same period, NCR shareholders would get a

number of AT&T shares equivalent to \$110 per NCR share, and would be guaranteed not less than 2.803 AT&T shares. Commenting on NCR's response to these contingency arrangements, AT&T said that it felt "reasonable protection"

against a fall in its own share price had been provided. In his formal announcement

of the new proposals, AT&T's chairman, Mr Robert Allen. also stressed that "this is the best offer NCR stockholders will see." However, AT&T did not rule out further discus-Not surprisingly, AT&T's stance appeared to have some

support among Wall Street

arbitrageurs - who have seen the NCR share price jump in recent months from \$44½ to

AT&T's latest proposal com-

over \$100 yesterday.

MARKETS

STERLING

\$6.12bn. This was an all-cash offer, but NCR responded by demanding \$125 a share. Its request subsequently dropped to \$110 a share, while AT&T said it would be willing to offer \$100 a share if NCR withdrew its opposition to the bid. In a proxy battle earlier this year, AT&T gained four places on the 12-man NCR board Yesterday, NCR shares rose \$4% to \$101% - well short of

the \$110 figure - with AT&T falling \$1% to \$36%. There had already been speculation that AT&T would replace the cash offer with paper terms. AT&T said that the new pro-

posal was subject to NCR chairman Mr Charles Exley remaining on the board for a reasonable transition period, and on a meeting betweeen AT&T and seven other senior NCR executives aimed at new arrangements to "retain their leadership". Lex, Page 18; Background,

STOCK INDICES

2,490.8 (-29.3)

1,954,4 (-- 25.7)

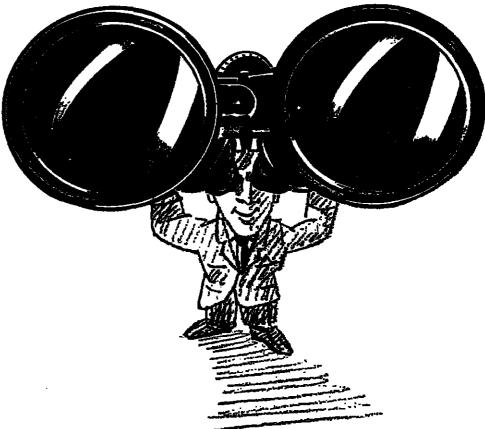
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Aerospace: McDonnell Douglas flies on with a India: Reality eats away at the ideals of the founding tathers .. Surveys: Computer industry; Finance and

19,22 19,20 19,21

equal chance in Europe



Lech Walesa, the Polish president, who begins a state visit to Britain today, outlines his vision of his country's future in an interview with FT writers Page 17

Stock Markets -London Technology

\$1.693 London: \$1.6925 (1.722) DM2.99 (2.89) FFr10.065 (10.0875) Y236.0 (236.25) COLD New York: Comex Jun \$359.7 \$357.3 (356.45)

New York lunchtime

N SEA OIL (Argus) yleid: 5.82% Long Bond: 9533 yield: 8.26%

New York lunch FFr5.9475 (5.8575) SFr1.4795 (1.4705) DJ Ind. Av 2,929,95 (-35,64) S&P Comp \$ index 67.1 (66.3) 381.48 (-2.74) Tokyo close: Y138.7 Tokyo: Nikkei US lunchtime rate 26,237.01 (-304.96) LONDON MONEY 3-mo Treasury Bills

Right here, at the hub of Europe, we can offer

in the Canary Islands. It makes the sun appear pale.

Technology: Distribution comes out of the

Sections III,IV investment in Portugal Companies ______ 21
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31-42 31-33

\$19.825 (18.975) Chief price changes yesterday: Page 19 Fed Funds 5끊%

DOLLAR

FFr5.952

SFr1.474

Y139.35

New York lune

DM1.766 (1.736)

3-month interbenic closing 1113% (1133) Liffe long gilt future: Jun 91¾ (91强)

Poll puts fate of Chancellor in question

By David Goodhart in Bonn

SUNDAY'S Social Democrat victory in a key German state election, giving the party control of the Bundesrat, the upper house of parliament, is certain to strengthen the trend towards co-operation between government and opposition.

For the first since the process of German re-unification began it has also placed a question-mark over the future of Chancellor Helmut Kohl him-

Mr Kohl admitted yesterday that the loss of Rhineland-Palatinate, his home state, was a "bitter defeat" but said that his government could not duck unpopular decisions. He added the Social Democrats would now enjoy "a new dimension of responsibility" but stressed there would be no strategy change in Bonn and that he was not considering early

Mr Kohl, echoed by other leading members of the ruling Christian Democratic party. did say, however, that the generation change at the top of the party had to be speeded up. Mr Theo Waigel, head of the CDU's sister party, the Christian Social Union, called the result a "disaster". Mrs Anke Fuchs, SPD gen-

eral secretary, said that Mr Kohl was politically exhausted and had sunk to the level of unpopularity of 1989 before being saved by German unity "which he manipulated for electoral ends".

However, despite the boost to the SPD, the party has still to find a convincing leadership team, and as it gets drawn into accepting more responsibility for national politics will find it more difficult to score points at Bonn's expense. In national opinion polls the centre-right coalition continues to comfortably lead the SPD.
In the Rhineland-Palatinate

itself the SPD will negotiate first with the liberal Free Democrais, also coalition partners in Bonn, but may following Hesse and Lower Saxony with

a "red-green" coalition. In Bonn the SPD will use its blocking power in the Bundes-rat to stop the coalition's plans to abolish two local taxes

Swedish parties attacked on policies

SWEDEN'S main opposition parties - the Moderates and the Liberals - were accused yesterday of wanting to intro-duce Thatcherism into the country if they form a govern-ment after the next general

"They want to put Mrs Thatcher's discarded coat over Mother Sweden," said Mr Allan Larsson, finance minister of the ruling Social Democrats, in an attack on their joint economic programme revealed at the weekend which is designed to transform Sweden into a market-oriented more

"What they want to do is

nothing more than to intro-duce the policies that were tried out in Britain during the 1980s and which led to very high unemployment and increased social division," he

Today Mr Larsson will introduce Sweden's supplementary budget for 1991 which will indicate the Social Democratic alternative to the Moderate-Liberal economic programme.

The two main opposition

parties have indicated they intend to fight the forthcoming general election campaign on a

common economic strategy.
It contains promises for a

added tax from 25 per cent to between 18-20 per cent as part of a staged reduction in public spending and tax pressure for ijustment to future European

Community membership.

The parties also pledge to cut the proportion of Sweden's gross national product of 60 per cent that goes to the public sector, reform the sickness insurance system to deal with the scandal of high absenteeism from work and privatise the state industry sector.

They will also abolish monopolies, encourage saving and share ownership, and strengthen market forces in the labour market as well as in the financial system and in

Both Mr Carl Bildt, the Moderate leader and Mr Bengt Westerberg, leader of the Liberals said their programme would not be changed to satisfy any other possible coalition partners in a future non-Socialist

The Christian Democrats who are expected to enter Par-liament for the first time will back the far-reaching economic manifesto. But Mr Olof Johansson, Centre party leader, said he could not agree with much of it and doubted whether the Centre would support such a

lose job as Slovakia's premier

By Lesite Colltt in Prague

MR VLADIMIR MECIAR, Slovakia's controversial prime minister, could lose his job after forming a break-away populist political movement.
His Public Against Violence (PAV) party and the Christian Democratic Movement (CDM) are now negotiating to form a new coalition government in Bratislava, the Slovak capital. Mr Jan Carnogursky, CDM's leader and currently deputy prime minister, is widely favoured to succeed Mr

Earlier this month, the volatile Mr Meciar antagonised his party's leadership by forming a rival wing called PAV-Platform for Democratic Slovakia. He also aroused suspicion in the federal capital, Prague, by holding talks in Moscow with the Soviet military about resuming arms production at workless Slovak weapons fac-

Mr Meciar has refused to comment on his next steps but he is now expected to split for-mally with PAV at its congress later this mouth and set up a new party. Mr Mediar is mis-trusted by leaders of the PAV, whose ratings have plum-

whose ratings have plummeted in recent opinion polls, but is very popular with ordinary Slovaks.

President Vaclav Havel has called for a referendum in the Slovak and Czech Republics on the emotive issue of independence for Slovakia. Parliament is expected to adopt the prois expected to adopt the pro-posal shortly and the referen-dum could be held this sum-

The departure of Mr Mecian from the government could improve the prospects for eco-nomic reforms. He strongly advocated slowing down eco-nomic restructuring in order to soften the impact on Slovalcia, which has a highly imbalanced economy.

Meciar may | Yugoslav industrial output tumbles

By Laura Silber

INDUSTRIAL production in Yugoslavia fell just over 23 per cent last month compared with

year earlier. Croatia, the independenceminded western republic, was bardest hit; its output fell by 29 per cent. The three-month figure for the predominantly ethnic Albanian province of Kosovo was 31.2 per cent below that for the same period last

The republics of Serbia, Croatia and Slovenia are all resisting the market reforms proposed by Mr Ante Markovic, the prime minister. These reforms call for the total overhaul of the country's financial and banking system and introduction of a restrictive monetary policy. The programme aims to break the hold over the economy of local political authorities.

Mr Markovic criticised the republics sharply last week for sabotaging his plans and he appealed to the federal parliament to back the reforms in the "transitional period" while the country's leaders sought a resolution to the political crisis. He said \$5bn-\$6on in loans from the International Mone-tary Fund and western banks depended on the republics' compliance with the pro-

Yugoslavia's foreign debt totals \$16.1bn and its trade deficit is more than \$4.5bn.

In his address to parliament, Mr Markovic announced a 30 per cent devaluation of the dinar. He also outlined plans for restructuring the banking system and the privatisation of state enterprises which the governments of the republics have brought to a standstill. Mr Markovic this week faces

a battle in parliament for the approval of his economic

direct cut in Sweden's value Soviet debt to Finland falls as trade drops

By Enrique Tessieri in Helsinki

ACCORDING to figures released by the Bank of Finland, the total Soviet debt to Finland reached around FM5.6bn, (\$1.4bn) at the end of last March, dropping from some FM6.5bn at the end of

mainly attributable to credits and deposits received by Finnish commercial banks from the

Of the total FM5.6bn debt owed by the Soviets to Finland, FM2.2bn was made up of over five-year-long clearing credits,

AEMAGNUM.

TRUCK OF THE YEAR.

FM1.2bn in five to seven-year hard-cash credits and FMibn in one-year hard-cash credits given by Finnish banks. Another FM400m is in a special clearing account with the remaining FM800m being hard-

cash payments in arrears. Apart from these receivables, the balance of payments in the clearing account is at present \$100m in favour of the

This money will be used to pay back the debt owed by Moscow to Finnish companies. Finland is facing a severe

exacerbated by the sharp plunge in trade with the USSR, after the Finnish-Soviet clear-ing system switched to hard

currency at the beginning of

Mr Mauno Koivisto, the Finnish president told Mr Val-entin Paylov, Soviet Prime Minister, this week in London that he hoped both countries could switch back to trade hased on barter.

Given the economic and political instability in the USSR, observers are sceptical

Meanwhile, Finnair, the Meanwhile, Finnair, the state-owned airline, and the Soviet airline, Aeroflot, have signed an agreement which is aimed at studying the prospects of forming a joint venture to offer air services between Leningrad and the rest of Europe.

With its home base in Lenin grad, the joint venture airline would use a part of Finnair's DC-9 fleet and use Finnish airlines maintenance and training

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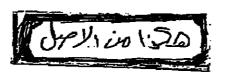
TRUCK OF THE YEAR ÄE 1991

One look at the Renault AE Magnum will stop most people in their tracks — but what was it that caught the imagination, as well as the eyes, of the 13 international judges? Quite simply: an outstanding combination of advanced technology, practical design and engineering. A vehicle which sets world class standards for operational efficiency. performance and comfort. Standards that others will struggle to match. In a nut shell, a profitable investment in the future.

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RENAULT TRUCKS - A LEGEND IN THE MAKING

Trucks



Turks may build German homes

ESCOY APRILS

Yugoslar

ndustrial

output

tumbles

A state-owned Turkish bank, has offered to build mass hous-ing in eastern Germany using cheaper Turkish labour to cut costs, a senior bank official said yesterday, Renter reports from Istanbul. "We can halve house prices

we can haive house prices if cheaper Turkish labour is approved," said Mr Engin Civan, general manager of Tur-kiye Emlak Bankasi. Bank officials said the offer by the bank's contracting arm had been welcomed by the German

government.

However, some foreign workers in the former communist state have suffered racist attacks by Germans worried at the economic problems and job losses that followed union with the former West Germany.

Germans keep eve on the old enemy

The German army has been systematically checking up on Soviet forces in old East Ger-, many without the defence min-ister's knowledge, military offi-cials told Reuter in Berlin.

A Soviet sentry shot and wounded a German major outside a Soviet army base on Friday after he and two other offi-cers were found observing a sensitive munitions depot, scene of a shooting on April 9 in which no one was hurt.

Defence Minister Gerhard Stoltenberg has now ordered a halt to "open intelligence gathering" and launched an inquiry, said a ministry spokesman.

Polish tourists beaten up

Several Polish tourists were attacked during the weekend in rising anti-Polish violence in eastern Germany, Polish media said yesterday, Reuter reports

PAP news agency said 13 Poles were "brutally beaten and robbed", mostly at motor-

way parking lots where they stopped for the night.

A gang of 20 masked neoNazis attacked Poles going home by train from Leipzig.

They boarded the train at Loehau and the Poles' shouts for help were ignored as the train stood at the station.

The mass-circulation newspaper Gazeta Wyborcza said the gang was celebrating the 102nd anniversary of the birth of Nazi leader Adolf Hitler.

Honecker 'flown out of Moscow'

Former East German Communist leader Mr Erich Honecker, flown in secret to Moscow last month on the orders of the Kremlin, has been moved to a hospital outside the Soviet capital, according to Germany's Bild newspaper, Reuter reports

from Bonn. In a report published today Bild said Moscow City Council had objected to Honecker's presence in the city.



Poles examine the country's first seven-digit banknote, issued yesterday and valued at ZL 1m.

Walesa looks to clear air in UK

By Christopher Bobinski in Warsaw

PRESIDENT Lech Walesa arrives in London today hop-ing for good weather and deter-mined to convey some "home truths" about the way western countries are dragging their feet over reuniting Europe in the twilight of the cold war.

"I perform badly when its rainy and misty" he said, adding: "I've had the sun on my other trips," referring to recent journeys to Washington, Parls and Brussels where he has urged western investors to come to Poland.

These visits have revealed west European leaders unwill-ing to speed integration with post-Communist countries at the moment when, according to Mr Walesa, "everything is

in Britain he will be encouraging businessmen to put money into Poland, where the government is maintaining strict monetary controls in an attempt to lower inflation to a monthly 1 per cent by the end

of the year. Mr Walesa will meet bankers at the Bank of England on Thursday and urge them to halve the \$11bn his country owes them, as western governments have agreed to do.
His visit comes in the wake
of 40 hours of talks in Paris at

the weekend between Polish negotiators and the representa-tives of 17 western countries to whom Poland owes \$33bn. The

Poland issued a Zl 1m (£59) banknote yesterday, its first ever seven-digit currency unit, Reuter reports from Warsaw. The government expects inflation to fall to about 50 per cent this year after hitting 250 per cent in 1990, when a Zl 500,000 note was introduced. The new bill will make things easier for cashiers but for many Poles will remain only a symbol of affluence. The average monthly salary is Zl 1.5m.

talks produced a framework for an overall 50 per cent debt

reduction.

This foresees Poland devoting \$600m a year until 1994 to debt service payments, by which time the debt should have been reduced by half on condition that Poland maintains its anti-inflation pr gramme agreed with the Inter-national Monetary Fund.

Repayment of the entire debt, however, should be complete by the year 2014. President Walesa will be staying with the Queen at Windsor during his three-day visit. Meetings with Mr John Major and Mrs Margaret Thatcher, the present and former prime ministe Neil Kinnock, the Labour party

leader, are also envisaged. Polish debt, Page 6

Treuhandanstalt Berlin

GPH Gesellschaft zur Privatisierung des Handels mbH Hans-Beimler-Str. 70-72, 0-1020 Berlin

Invitation to tender

For the purposes of privatisation, tenders are hereby invited for the following former

Tender documents (standard forms of contract, valuation guidelines and asking prices) for the hotels listed below are available at the respective branch offices of the Treuhandanstalt.

They may be inspected there as of 24 April 1991. It is not possible to send documents by post.

THA branch office

0-8010 Dresden Webergasse 2

0-5010 Erfurt

0-1200 Frankfurt/Oder Halbe Stadt 7

0-9044 Chemnitz Neefe Straße 119

0-2500 Rostock Fredigrathstraße 1

0-2781 Schwerin

Werkstr. 1 Schwerin Süd

Hotel am Stadion

Hotel property

Hotel Lubin/Stadt Bautze Tourist-Hotel Dresder Hotel Bürgerhof

Straße der DSF 3, PSF 220

The entire enterprise including land and buildings is to be sold.

Sealed bids in compliance with the guidelines available at the branch offices should be addressed to the relevant branch office no later than 5 p.m. on 13 May 1991 (time of receipt).

The branch offices of the Treuhandanstalt shall decide in respect the acceptance of tenders. The Treuhandanstalt shall not be bound to accept the highest or to any particular tender.

EUROPEAN NEWS

Dollar shops face ban in Romania

ROMANIA WILL ban shops from selling goods for hard currency next month, in the next stage of its gradual move towards currency convertibil-ity, National Bank governor, Mr Mugur Isarescu, said yesterday, Reuter reports from

Bucharest.
Dollar shops proliferated in the relatively free-for-all atmosphere following Romania's December 1989 revolution.

New higher-denomination

New higher-denomination leu banknotes will also be introduced, the central bank chief told a news conference.

Mr Isarescu said sales for hard currency would be forbidden from May 3, although shops would be given several weeks to liquidate existing stocks which had already been priced. "Local currency will be priced. "Local currency will be the only legal method of payment, except in duty-free shops, free zones, payments made by diplomats and at air-ports and ports," He said. Mr Isarescu said the central bank would bring in a 500 lei (£4.60) note from May.

Soviet disintegration bad for Europe, warns Hurd

By Robert Mauthner, Diplomatic Correspondent

THE DISINTEGRATION of the Soviet Union Into separate states was contrary to the interests of the rest of Europe and the west as a whole, Mr Douglas Hurd, the British for-eign secretary, said in London

Mr Hurd, who was address-ing the British Atlantic Group of Young Politicians, conceded that the western European states could not have much influence on developments inside the Soviet Union. That was a matter for the Soviet

was a matter for the Soviet people themselves.

"But what we can say is that it is not in the interests of Europe as a whole, or of the west, to see the Soviet Union disintegrate into a kaleidoscope of republics, some quite weak, some divided within their own boundaries, and leaving a possibility of continuing disorder and weakness..."
What the west wanted to see was a Soviet Union which was

was a Soviet Union which was dedicated to reform, and in

which the links between the various republics were based on consent rather than on command and force. It wanted to help the Soviet Union to reform itself. Despite the set-backs in this process, prepara-tions for the British and European Community technical assistance programmes were

going ahead. Turning to the lessons that Europe should draw from the events of the past year and the Gulf war, in particular, Mr Hurd expressed strong support for greater foreign policy co-or-dination within the European

Community.
"I can see in our dealings with the Soviet Union... over events in the Baltic states, that it really would be crazy if there were separate and contrasted British, French, German, Ital-ian policies towards what is happening in the Soviet Union," Mr Hurd said,

However, he reiterated Britain's opposition to majority

voting on foreign and security policy issues, which, Mr Hurd claimed, would have led to a less effective European reaction in the Gulf crisis. in the aftermath of the Gulf

conflict, one particular problem which the Twelve should now be considering, in co-operation with the US, the Soviet Union and China, was the problem of arms exports and the proliferation of weap-ons of mass destruction. In spite of calling for greater

intra-European co-operation on security and defence policies, Mr Hurd stressed that Nato remained "the main defence

remained the main detence institution of western Europe and the Atlantic".

While Nato had to be reformed if it were to survive and remain relevant, to allow it to disappear would be "to spit in the face of the lessons of history. It would be a great foolishness, the kind of foolish-ness we committed in the past and regretted."

Moslems in clash over rights to oil

SOVIET Tatar Moslem demonstrators demanding regional autonomy clashed with police at the weekend and tried to halt the flow of oil to the west at a key pumping station, the official Tass news agency said yesterday, Reuter

reports from Moscow. Tass said police used rubber bullets to disperse thousands of demonstrators who marched on the station at the start of the "Friendship Pipeline" after a rally on Sunday in Alme-tevsk in the Urals region of Tataria.

Many demonstrators waved green Islamic flags or chanted "Tatar oil for Tataria" – a railying cry in the region's bid to

secure more autonomy within the Russian Federation.

"Not far from the station they were met by police and special forces who told them to stop and had bottles and rocks thrown at them from the crowd," Tass said. Almost half of Tataria's 3.6m inhabitants are predomi-

nately-Moslem Tatars

Hungary angry over Danube hydro project

HUNGARY yesterday attacked a Slovak plan to divert the Danube river, accusing it of breaking international law, after talks about the controver-sial hydro-electric project broke up in disagreement, writes Nicholas Denton in

Budapest.
Slovakia appeared determined to continue with the Bos-Nagymaros project, despite Hungary's opposition. Mr Vladimir Meciar, the Slovakian Prime Minister, even made a resided throat to complete see. veiled threat to complete con-struction within Slovakia's

own territory, according to Hungarian officials. "It would infringe the integ-rity of Hungarian territory," an official said of a Slovak scheme to divert the Dannbe.

Mr Meciar refused to rule it out as one way of circumvent-ing Hungarian opposition. "Slovakia will not give up its intention to continue construction," he said.

Digging a new channel was one of nine possibilities being considered but the Slovak government has not made any

Turkish airline cuts flights

STATE-RUN Turkish Airlines (THY), hit by a three-week-old strike by some 8,000 THY workers and 2,500 airport staff. which is costing it about \$1.6m a day, said yesterday it was dropping eight foreign destina-tions this year, Reuter reports from Istanbul.

The national carrier said in a written statement it would end flights to Toronto, Budapest, New Delhi, Kuala Lumpur, Dhahran, Bahrain, Abu Dhabi

Chevènement plans come-back to French parliament

By lan Davidson in Paris

THE enfant terrible of the French Socialist Party, Mr Jean-Pierre Chevenement, who resigned earlier this year as defence minister in protest against the Gulf war, is planning a come-back to national politics and shows every sign

of intending to live up to his reputation.

Yesterday he announced that he would be standing for parliament again, in a by-election in his old Belfort constituency, which is being volume. ency, which is being volun-tarily vacated by one of his loyal followers, Mrs Gilberte

Marin-Moskovitz. Under the French system, a politician who becomes a min-ister automatically surrenders his parliamentary seat, and it is then filled by the next per-

son on his electoral list.

Only the generosity of his successor, as in this case, allows him a chance of recapturing it.

Despite Mr Chevenement's resistance to official policy dur-ing the Gulf crisis, the Socialist party spokesman yesterday said that it would support his



Even Peter's diary contains a micro processor.

In the City of London computers seem to do Leverything but make the tea.

Peter says he's fluent in four languages: UNIX, MS-DOS, PICK and BASIC. His biggest fear is a powercut.

Each day he helps to make hundreds of financial deals, transferring the clients' demands into the system.

But like millions of other people, when he needs a printer, Peter uses a Star printer. That's because he needs a printer with flexibility - able to print presentation documents or yield listings day in,

The state of the s

He also needs something with a quality print-out. If you're shifting millions of pounds it doesn't do

to look cheap. And of course he needs something which is totally reliable. The market waits for no man,

All Star products are designed and produced this way.

So you will find them all over the world.

Printers designed for people not machines.



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Hong Kong stumbles badly in its battle of wills with China

Peking is out-manoeuvring colonial officials over the contentious issue of who will control a proposed £7bn airport, reports John Elliott

points in a tense diplomatic battle with China over plans to build a HK\$100bn (£7bn) international airport, which Peking is refusing to back until it has achieved extensive control over the

The British colony is not prepared to concede such control before it returns to Chinese sovereignty in 1997 and it is threatening to shelve the project indefinitely. This is creating uncertainty which is knocking business confidence yesterday the local stock market plummeted by 2.32 per cent, the big-gest fall since the start of the Gulf conflict last August.

Hong Kong's colonial government has also lost points recently to China on three other occasions while trying to defend its constitu-

tional rights.

The latest occurred yesterday when Mr Gordon Wu, a prominent

construction entrepreneur, was invited to Peking for talks on plans drawn up by a group of Hong Kong Chinese property developers to take over the project and finance it themselves for about HK\$60bn.

Mr Wu's ace card would be to suggest to China that he and the other developers could build the airport rapidly after 1997 if Hong Kong refuses to come to terms in the next few weeks. Infuriated Hong Kong government officials see this as a spoiling tactic at a time when they are trying to persuade China to

Another loss on points came last week after Hong Kong refused to publicise details of its options for the project, despite considerable local pressure. Top Peking officials provocatively said that they were willing to publish their ideas as soon as Hong Kong agreed, so that local people could judge which alternative they prefer. This led to an outspoken debate in the colony's Legislative Council last Wednesday when legislators turned on Britain and Hong Kong, not China.

But perhaps most humiliating of all was a lecture read to Hong Kong officials recently by China about fis-cal discipline, control of public borrowings, and maintenance of fiscal reserves. This was not a new line, because China has been arguing that the airport project will drain reserves and weaken the economy

The humiliation arose because the Chinese, who are not them-selves renowned for strong fiscal discipline, read the lecture from Hong Kong's 1979 budget speech delivered by Sir Philip Haddon-Cave, the then powerful financial secretary. The inference was that in order to build a massive British memorial to over 150 years of colonial rule, Hong Kong's current top officials had over-ridden the strict

financial ethics on which the colony shelve (or effectively cancel) the had thrived

China acknowledges a new airport is needed to replace existing congested facilities. But it has been objecting to the plans since late 1989, initially for a mixture of political and economic reasons. Now it is seeking a continuing say on the project – for example the right to examine financial borrowing and contract decisions – in addition to having seats on an airport authority "It wants control," says a senior official.

Hong Kong says it is only prepared to consult China. It argues that any further consensus-seeking measures would slow the project and establish a precedent for China to gain virtual control of other medium- and long-term economic and fiscal decisions before 1997.

Hong Kong's aim now is to per-suade China that it is not bluffing when it says that it would prefer to

ter reports from Nicosia.

The aim is to tempt half a

million Kurdish refugees out of squalid camps on the Iraqi-Turkish border and into tem-

porary, well-organised settle-ments under allied military

There is no similar relief effort on the Iraqi-Iranian

frontier, to which Im refugees

have fled in the mass exodus

caused by suppression of two revolts last month.

Many of the refugees are sceptical of the plan and much

epends on the outcome of the

Baghdad talks on the future of Iraq's Kurdish provinces.

The Japanese government yes-terday gave final approval to the despatch of minesweepers to the Gulf, on what will be the Japanese military's first

mission on active service overseas since the Second World War, Stefan Wagstyl reports

from Tokyo.

Leaders of the ruling Liberal

Democratic Party decided to override objections from crit-

ics who argued that sending

troops abroad would infringe the country's peace constitu-tion. A fleet of six ships and

end of the week on the month-

long voyage to the Middle East.

The government has twice before considered sending minesweepers to the Middle

East, only to drop to drop the idea later in response to intense opposition – first during the Iran-Iraq war in 1987 and again during the Gulf cricic let reco

Kuwaiti terminal

Shuaiba, Kuwait's largest con-

tainer terminal, was cleared for general traffic by the emir-

reopened to all

Japan to send

minesweepers

Tak airport. This refusal to give Peking a precedent for control is backed by Mr Douglas Hurd, the British foreign secretary, who failed to reach agreement during a recent visit to Peking and who would have to sanction any final breakdown

with the Chinese. The airport is now estimated to cost HK\$100bn at 1990 prices and is the world's largest new infrastructure project apart from Gulf recon-

Officials had hoped the private sector would finance 40 to 60 per cent of the HK\$127bn plans (at 1988 prices) originally announced in 1989, which included linked port developments to be carried out

Recently it has emerged that the expected private sector element has dropped to only about 25 per cent of the HK\$100bn - including bonds,

loans, equity stakes and franchises for parts of the airport.

But whatever the percentage, the government now believes that China's support is essential. It fears China would attack the project if there were no agreement and that this would scare off financial backers because franchise periods and debt repayments would not start hefore 1997.

It might even deter six pre-qualified international construction consortia which are now waiting to be invited to submit tenders for the Lantau Fixed Link. Business confi-

dence, on which Hong Kong depends, would slump.
Politics apart, Hong Kong could build the airport without the private sector. It has HK\$75bn of basic fiscal reserves. fiscal reserves, plus an Exchange Fund which has a secret amount of accumulated investment earnings. believed to be about HK\$50bn-70bn (in addition to HK\$40bn needed to

prop up the currency and about HK\$60bn transferred temporarily as investments from the fiscal

reserves).

Most of the Exchange Fund earnings could be used for the airport, but the government does not regard this as a viable option because it this as a viable option because it this as a viable option because it is a creation. would be strenuously opposed by China and, possibly, by Hong Kong

So the future of the project before 1997 depends on agreement with China. This is a dramatic turnround from two years ago, when Hong Kong saw no need even to consult Peking fully on the plans. As late as last year top officials were saying they would go ahead on their own if China did not fall into line, using public sources for the bulk of the

funds. Hong Kong is learning painfully about China's determination to protect its inheritence over the final six years of British rule.

Kuwait says human rights abuses are over French and

THE EMIR of Kuwait or illegal imprisonment, yesterday assured Mr James Amnesty said.

Baker, the US secretary of Mr Baker said in Jeddah, state, that human rights violations which followed liberation from Iraq have stopped, Reuter

reports from Kuwait.
"I'm told that those abuses have ceased and I was told as well that the government of Kuwait would be pleased to invite human rights organisa-tions here to interview minorities - Palestinians and others," Mr Baker said after 80 minutes of talks with the emir, Mr Sheikh Jaber al-Ahmed al-

Amnesty International said last week that Kuwaiti armed forces and former resistance fighters had killed scores of suspected of being pro-Iraqi. Many others suffered torture

Saudi Arabia, before beginning his second visit to Kuwait since liberation, that he was concerned about the report and would raise human rights

issues.

Asked after his meeting with the emir whether he had received assurances on democratisation and human rights, Mr Baker told reporters: "Yes, indeed I did. The emir, the crown prince (Sheikh Saad al-Abdulla al-Sabah, who is also prime minister) and their colleagues were very forthcoming

some human rights abuses in the early days following the liberation of Kuwait."

Mr Baker said both men expressed their regret that abuses happened "during a period of time when they were trying to get control over the internal security."

Mr Baker said the emir had

stressed in a speech on April 7 the importance of holding parliamentary elections in 1992. Opposition leaders want him to a date and restore within six months the parliament dissolved in 1986. He said that the emir's

assurances on democratic reforms and human rights "were very forthcoming and are received by us as such". Earlier on Monday, Kuwait launched a campaign to collect tonnes of Iraqi weapons still held by civilians. A senior offi-

cial said the government would

search for thousands of guns

which fell into private hands as US-led allied forces drove out Iraq's invasion army in

late February.

Those who did not hand in their firearms would be dealt with according to the law, Mr Mohammed Qabandi, Interior Ministry under-secretary, said in a newspaper interview. But he did not make clear how the authorities would find out who

● Kuwait has started register-ing non-Kuwaiti residents as a first step to sorting out its future population after the Iraqi occupation and the Gulf war, Reuter reports.

Officials said new identity cards would be issued to expatriates still in the country who were resident before Iraq's army invaded Kuwait last

S Korea's industry giants **British** join pick their core businesses Kurdish camps effort

By John Ridding in Seoul

MOST OF South Korea's largest chaebol, the highly diversified conglomerates FRENCH and British troops joined US forces setting up "safe havens" for Kurds in which dominate the country's economy, have selected the northern Iraq yesterday and Kurdish rebel leaders pursued top-secret autonomy talks in three subsidiaries which they will develop as core business under a government plan to Baghdad with the Iraqi gov-ernment for a third day, Reuincrease industrial specialisa-tion and international competi-US marines set up the tiveness.
In submissions to the Office nucleus of a refugee camp near Zakho on Sunday as Iraqi troops, told by Washington not to interfere, withdrew to the

of Bank Supervision and Exchange – the government banking watchdog – which were released yesterday, all but six of the conglomerates nominated their three "core" business groups. The selected subsidiaries will be freed from restrictions on bank lending which were imposed on the chaebol in 1984 and which were aimed at limiting economic

concentration. The six which have not yet selected core businesses have had the deadline extended from last weekend until the

The selections have raised concerns about overlapping investments and fierce competition in several industrial sec-tors. Many of the *chaebol* have chosen subsidiaries from the same industries for specialisation. Twelve of the 30 conglomerates, for example, have elected petrochemicals. Cars and electronics were also common choices.

The new policy, which will be implemented from June 1, is intended to increase specialisation among Korea's business giants by providing credit incentives to concentrate on a smaller number of activities. The government argues that more focused investment in technology and productivity is needed to increase Korean competitiveness in international markets.

Chaebol subsidiary companies other than the three selected will see existing credit controls tightened. The Ministry of Finance said the government was deciding how to

TEN BIGGEST GROUPS AND THEIR SELECTED COMPANIES Selected subsidiaries Samsung Shipbuilding & Heavy Industries Samsung Electronics Samsung General Chemica Hvundai Petroche Hyundai Precision Industries (Shipbuilding) Lucky Ltd. (petrochemicals) Goldstar (electronics) 3. Lucky Goldstar Goldstar Electron Devices (lextiles, construction trading) Deewoo Electronics Daewoo Shipbuilding Yukong (oil refining) SKI (textiles) SKC (audio and video tapes) Ssangyong Cement Ssangyong Oil Refinery Ssangyong Motors Korean Airlines Hanii Development (construction Hanjin Shipping Tongyang Nylon Hyosung Heavy Industries Hyosung Corporation (trading) Korsa Explosives (chemicals)

Kyungin Energy (oil refining) Hanyang Chemical

Asia Motors Kia Machine Tool

apply the squeeze.
While the *chaebol* oppose the existing policy of credit con-straints, they have strongly criticised the government's moves to make them speci-alise. A statement by the Federation of Korean Industry, which represents the large business groups, compared the new policy to a lottery.

Most industry observers believe it will be difficult for

the government to enforce the policy and, in particular, to prevent funds flowing from selected group companies to other subsidiaries.

There were few surprises in the subsidiaries selected by the various companies. Samsung Group, the largest of the con-

recorded sales of \$43.4bn (£24.2bn), selected Samsung Electronics, Samsung Ship-building and Heavy Industries and Samsung General Chemical as its core businesses. Hyundai Group, the second

biggest conglomerate, and Lucky Goldstar, the third biggest, also selected petrochemi-cals as one of their choices. Daewoo Group, the fourth largest chaebol, did not select Daewoo Motors, its 50-50 joint ven-ture with General Motors of the US. But it did select Daewoo Shipbuilding and Heavy machinery, which will soon start to manufacture mini-cars. As well as free access to

bank credit, the companies chosen will have restrictions glomerates, which last year on real estate purchases lifted.

Saddam seeks policy to partner brute force

By Lamis Andoni, recently

THE Iraqi government's decision to launch negotiations with Kurdish opposition leaders is the latest sign that President Saddam ¡Hussein is attempting to remain in power by means of political flexibility

as well as brute force.

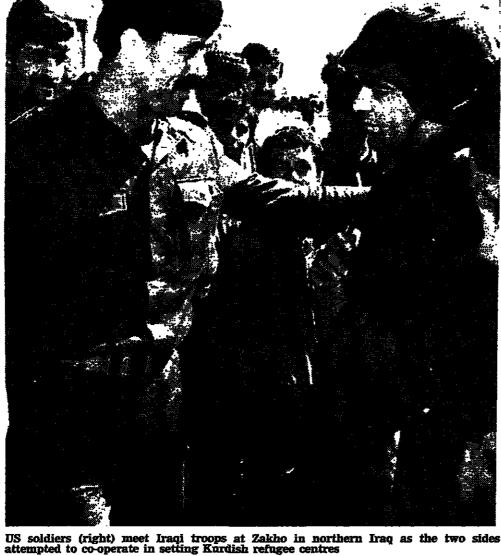
It might be going too far to suggest that President Saddam, who has just deployed his security forces to crush Kurdish and Shia Moslem rebellions in the north and south of the country, is in a conciliatory

But the Ba'athist leadership, weakened by the allies' crushing victory over the Iraqi army in Kuwait, is desperate to secure popular support by implementing – or appearing to implement – a programme of liberalisation. It is almost as if Mr Saddam has been studying recent events in the former communist dictatorships of eastern Europe; he is trying to tinker with the old system

without allowing it to collapse. Even those Iraqis who supported the government are now aware that three decades of Ba'athist rule has suppressed rather than resolved the sectarian and ethnic problems of Iraq. The appointment of Mr Saadoun Hammadi, a Shia Moslem, to the post of prime minister (previously occupied by Mr Saddam) is one of the most visible signs of the new mood in Baghdad.

For the first time someone other than the president has been allowed to assume a high profile, with Mr Hammadi addressing the people and announcing plans for political reform and economic liberalisation. Iraqis, however, believe this is partly to deflect domes-tic and international attention from the unprepossessing per-sonality of Mr Saddam until the pressure eases. With the president portrayed for the time being as a symbolic figure, any policy disasters can be laid at the door of Mr

Iraqi newspapers, closely controlled by the state, are even allowed to criticise Mr Hammadi and for the first time in recent memory cartoons of a senior official have appeared in the newspapers. Al-Qadisiya,



the Defence Ministry newspa-per, led the way with a half-page of satire in which car-toonists reminded Mr Ham-madl of the shortcomings of

Ordinary Iraqis, even some Ba'athists, remain very sceptical about the ability of the regime to change. Post-defeat calls for radical reform have been replaced by a sense of helplessness and despair. From the Kurdish north to the predominantly Shia Mos-

lem south people feel that they have no control over their own lives after the destruction of much of their infrastructure by the allies and the crushing of the internal uprisings across the country.

Those Kurds trickling back

to their homes in Kirkuk and Suleimaniya do not hide their sympathy for the opposition or their fear of the government. Journalists who went on government-organised trips to the holy Shia cities of Najaf and Kerbala in the south were confronted by the defiant stares of local men and women. Damage in the south is much more serious than in the Kurdish

Even in Baghdad there are indications that the army's suppression of the rebellion has provoked militant feelings among Shia intellectuals.
The prospect of anarchy in a fragmented Iraq and the unconvincing political perfor-

- in Baghdad at least - to persuade people to give the gov-ernment's much-heralded reforms a chance to work. Kurdish leaders themselves

are reluctantly talking to the government despite what they regard as previous betrayals, although they are insisting on international guarantees for any autonomy plan accepted by the regime.

Many Iraqis, however, fear that President Saddam will backtrack as soon as he feels that his grip on the country is

He has pledged in a number of speeches that the process of reform is irreversible, but lragis say he has a long way to go before they will take him at his word.

rate's authorities yesterday.

Paul Abrahams writes from

Kuwait City. The port's opening should help reduce shortages of essential supplies in the country.
Although Shuaiba was reopened last month, only gov-

ernment-chartered ships were allowed to use its facilities. Otherwise, imports were flown in by military aircraft or trucked along heavily damaged roads from Saudi Arabia. Routes from Iraq, from where most of Kawait's pre-war sup-

most of Kuwait's pre-war supplies came, are closed.

The port, which has a capacity of 7m tonnes a year and can' handle 20 ships simultaneously, will be taking on labour next week, according to Captain Abdul Al-Naibari, the director general of the Kuwait Ports Authority.

The decision to re-open

Shuaiba follows extensive clearance of mines and unexploded ordnance by United Nations underwater explosives

Italians awarded telecom contract

Italcable, the international telecommunications subsidiary of Italy's STET stateowned group, has won a con-tract to re-establish all Kuwait's telex links with the outside world, Haig Simonian eign minister, Mr Leon Wesreports from Milan. A value for the deal, which

is for three years at the outset, has not been disclosed. However, Italcable says it also hopes to be involved in future work on developing Kuwait's telecommunications systems.

China warned to cool its economy

A SENIOR official warned yesterday that the brakes had to be put on China's economy to protect a fragile recovery and avoid runaway

protect a fragile recovery and avoid runaway inflation, Reuter reports from Peking.

"From last year's suitable policy of increasing demand to promote economic recovery, we must turn to a policy of controlling demand in a planned way," Zhang Zhongji, of the State Statistical Bureau, said.

"The basis for a sustained growth of the national economy is still rather weak or fragile" said Zhang.

ile," said Zhang.
China's unwieldy economy has long lurched

between boom and bust, and this time it is headed for a boom. Industrial production grew 13.7 per cent in the first quarter over the same period in 1990 when it was stagnant. Retail sales, once squeezed by an austerity programme – now all but abandoned – surged 13 per cent in the same period.

Zhang pointed to a variety of problems facing

Zhang pointed to a variety of problems lacing the economy, such as renewed inflation in cities, mounting stocks of unwanted goods at loss-making state enterprises, and a huge surplus of unused credit left from an easing of monetary policy. Chief among the culprits are state enterprises, more than one-third of which are losing money because they make goods that consumers do not want, or cannot afford.

Taiwan moves to end 'state of war'

By Peter Wickenden in Taipei

TAIWAN'S National Assembly yesterday 1 rapidly finished revising the constitution to end a state of war with China that has lasted for 43 years – in the absence of opposition and inde-pendent delegates who walked out in protest. Chiang Kai-shek's nationalist Chinese gov-

erument suspended the constitution with addi-tional emergency clauses, and declared a "Period of Communist Rebellion" just before it was driven to Taiwan by Mao's Communist forces in 1949.

The removal of the clauses allows President Lee Teng-hui to end the period of "Communist Rebellion" in early May and usher in a new era of constitutional democracy for Talwan.

Taipel hopes it also signals the start of a new

Taipei hopes it also signals the start of a new relationship with the communists in Peking, from whom it is expecting a positive response. Both governments still staunchly claim sovereignty over all of China including Taiwan, but a rapprochement of some sort has been forced upon them by growing interchange between their peoples in recent years.

The opposition Democratic Progressive party and a number of other groups oppose the National Assembly's adoption of a constitutional reform package that allows the president

tional reform package that allows the president to keep emergency powers.

opposition has done something Israeli right sees no change on settlements

By Hugh Carnegy in Jerusalem

EXTREME right-wing members of the Israeli government said yesterday Mr Yitzhak Shamir, the prime minister, had promised them he would not compromise on Jewish settlement of the occupied territories despite Washington's protests that continued settlement could upset its Mid-

dle East peace effort. Meanwhile Mr Yossi Ben-Aharon, head of the prime minister's office, said the government would not accept any Pales-tinian from Jerusalem in a Palestinian delegation to talks and opposed extending the role of a proposed regional peace conference beyond an opening function to later bilateral negotiations.

Both issues - along with settle-

ments - are among the obstacles to con-vening Arab-Israeli talks that Mr James Baker, the US secretary of state, will seek to overcome when he returns to Israel today for further talks.

Mr Shamir met the Tehiya party, a

three-member faction in the coalition led by the Likud party, and a group of settlers to discuss their concerns. Ms Geula Cohen, a Tehiya junior minister, said afterwards Mr Shamir had "promised that settlement will not be harmed".

Ending Jewish settlement of the West Bank and Gaza Strip is a key demand of Palestinians and other potential Arab peace conference participants. But Mr Shamir's government has repeatedly vowed

that it should continue.

Yesterday, opposition politicians published a report they said showed mortgage subsidies beyond those available in Israel proper were on offer to settlers to encourage faster settlement. Mr Baker won Saudi Arabia's support

yesterday for an early Middle East peace conference, Reuter adds.

Asked whether the kingdom might hold direct talks with Israel, Prince Saud said the important thing was "to focus on end-

ing the Palestinian problem". Palestinians fear Israel may use a regional conference to make peace with Arab neighbours and sidetrack their aspirations for an independent state.

De Klerk urges more UK links By Michael Holman, Africa Editor PRESIDENT F.W. de Klerk of

South Africa yesterday opened a two-day visit to London with a private meeting with representatives of banks and financial institutions, at which he called for the strengthening of trade and investment links between Britain and Pretoria. South African officials declined to disclose further details. Mr de Klerk was accompanied by his deputy for-

sels, who met Mr Douglas Hurd, the UK foreign secretary, in the afternoon. Mr de Klerk was due to hold working dinner with Mr John Major, at which the British prime minister was expected to ask him to assess progress in efforts to negotiate a post-apartheid constitution. Also on the agenda are the political violence in South Africa and prospects for the country's return to the international sporting arena.
Today Mr de Klerk will

address the conference of the Institute of Directors, and speak at the Royal Institute for International Affairs in the He leaves tomorrow for Den-

mark, before flying to Ireland on Thursday and back to Lon-don on Friday to speak to the Confederation of British Indus-try and the UK-South Africa Trade Association.

Amnesty International, the human rights organisation,

yesterday criticised what it called "the lack of accountabil-ity" of the South African security forces.

Annesty said that there was "a pattern of unlawful behaviour by members of the security forces" which lent weight to "allegations of unprovoked use... of lethal force."

The statement called on the government "to bring to justice those members of the security forces responsible for human rights violations". Rarlier this month the Afri-

can National Congress accused Pretoria of complicity in town-ship violence. Mr Nelson Mand-ela, the ANC deputy president, is due to raise the issue when he meets Mr Major tomorrow.

All Harses

FINANCIAL TIMES TUESDAY APRIL 23 1991

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the facts are stacked in our favour.

Air UK. It would seem clear that Your silent partner APPOINTMENT

JEAN CAMPEAU -Robert Onlmet, L.S.C.; M.P.S.; LB.A.; Chairman of the Board and Chief accutive Officer of Onlmet-Cordon Biss Mr. Jean Camposa as a member of the Board of Directors of the company, and also as Vice-Chairman of the Board in

Mr. Campeau is Claiman of the Board of Directors of Domar Inc. Prior to his present position, Mr. Campean was Chaiman of the Board of Directors and imager of the Caisse de dépite nent du Québec, a major

Mr. Eric D. Haneter, a well-known Score, Switzedand and in Come The two are joining the other members of the board, re-elected recently at the

Mos. Myriam Onimet; Mistors Roger Charbonness; Réal Coulombe; Pierre Desmarsis II; Aimé Légaré; James D. Raymond; Stophen A. Wilger of Toronto; and Auron Yohalem of New

The compenies, which are part of Cuimet Cordon Blee Inc., have as their main ctivities the financial management of liferest portfolior; the acquisition and participation in differe ompenies; and the food processing and university of many food products under the bunds of Conten Bleu, Paris Pité,

Earth Day brings criticism of progress on environment laws

By Nancy Dunne in Washington

MILLIONS of Americans celebrated Earth Day yesterday amid concern about political stalemate over environmental

legislation. Two controversial laws are due for renewal this year: the Resource Conservation and Recovery Act, the federal law governing disposal and management of hazardous wastes, and the Clean Air Act. Environmentalists say the outlook for both is dim, thanks to lack of leadership by the White House and in Congress.

Mr Jim Middaugh, spokes

man for the Environmental Defence Fund, said bills to renew and strengthen both acts were plagued more by regional disagreement than by partisan differences. In the ise of the waste disposal legislation, those states with large tracts of surplus land were concerned about becoming dumping sites for those with little free land and high popu-

about incineration methods. "Do you incherate or do you prevent production?" Mr Mid-daugh said. "Some want recycling, some want wastes burned as fuels, some want that prohibited. Environmentalists

Authorized

PREMIER

generally want to see a reduction in the process of materials that create hazardous wastes." On the Clean Water Act there are disputes between those who want to develop stricter standards and those municipalities desperately in needs of federal funds to meet current standards. Growth plans of some cities are being limited by disputes over sew-

Little progress is also expec-ted on energy conservation measures, despite a study pub-lished by the National Acad-emy of Sciences this month demanding action to combat the "greenhouse effect".

The academy's recommenda-tions included: tax incentives or regulation to achieve a 80 per cent increase in car fuel efficiency; use of new fluorescent bulbs to reduce the power used in lighting by 50 per cent; more efficient motors to reduce industrial energy demand; tougher standards for appliances; and a restructuring of energy prices to reflect their costs to the environment. The administration

responded by restating its opposition to energy taxes and to more stringent federal efficiency standards.

WE BACK UP WHERE

OTHERS BACK OUT

Farm deal upsets Falklanders

Is the unloved FIC being paid too much? John Barham reports

HEN the Falkland Islands government announced on April 6 that it planned to buy out the last big absentee landowner The farms' only significant world. However, Mr Ronald Sampson, the government chief executive, says: "We will take a very hard commercial line in running the business. that it planned to buy out the last big absentee landowner left on the islands, it probably expected the deal to be received as a triumph of local power over the unloved Falk-

land Islands Company (FIC).
However, opposition to the sale quickly began to grow as purchase terms for the four FIC farms emerged. Less than a week after the announcement, a straw poll by the local radio station found that 36 of the 50 people questioned rejected the deal. The government has agreed

to pay £4.85m for the farms, which cover 974,000 acres of prime land in the southern half of East Falkland. Other payments raise the net price to 25m, or 13 per cent of govern-Most critics focus on the price FIC won for the farms.

Mr Bill Luxton, a councillor who hitterly opposes the acquisition, said: "It's not the consition, said: "It's not the concept that is wrong. I'm all for getting the land out of the hands of FIC." But he argues that the farms and their 200,000 sheep have been grossly overvalued, claiming that the Falklands have handed Anglo United, FIC's troubled parent company, a £3m "donation".

Mr Gerard Robson, one of the councillors who negotiated

product is wool. Wool prices have crashed to a 50-year low and no farmer is making money. So the Falklands should have received a discount from FIC instead of paying a premium.

However, FIC says it had another potential buyer who had offered as much as £5m for

Officials admit that covering losses at the farms, which produced 29 per cent of last year's wool output of 2,591 tonnes, will raise the acquisition price to £8m over the next three years. Mr Derek Howatt, chief financial officer, says the purchase may push the government into an operating deficit

this year.
Still, the legislative council is unlikely to reject the sale. Mr Robson, like most councillors, says it is worth paying a premium to wrest control of the islands' economy from FIC, which, established by royal charter in 1852, wielded almost feudal powers in the Falklands

Naturally, many people are questioning the wisdom of making the government a big landowner at a time when

fail to grasp complex issues, such as the land deal, fully. For their part, islanders fear that the British government subordinates their interests to But we will not announce its own political aims. redundancies in the medium term. If [the farms] have no Conspiracy theorists suspect

that obscure geopolitical or long term future they will be vested interests were the "real" reason behind the land sale. They say the government allowed to go to the wall." The government can also be criticised for failing to loosen was suspictously quick to FIC's grip over the islands' accept a sale that may not be in the islands' best interests. The Falklands have grown economy. Its shipping, retail and service operations remain intact. These sectors are proba-bly the most lucrative part of

rich quickly through the sale of fishing licences. This year licences will raise £23.7m for the treasury. The government had earlier convinced the islanders to save as much of Ithough Anglo United refused a government offer to buy FIC outright, it decided to give the the windfall as possible. But now it has agreed to a deal that will cost this year's budation" a half-share in its sub-sidiary Darwin Shipping. Dar-win is a charter company that handles nearly all the islands' foreign trade. By making the

get surplus.

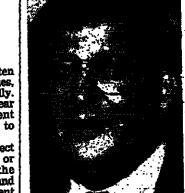
Mr Ray Evans, a farmer, says: "If they could only give a solid reason for paying such a high price, it would calm a lot

government a partner, FIC probably expects it will be less auxious to break its oligopoly. of people."
But Mr Rodney Lee, once a
farm hand and now the owner Strangely, the sale has high-lighted the islanders' lack of self-confidence. The Falklands of a successful sheep farm, summarises the islanders dilemma: "I've done a lot of bowing and scraping in my time. We have been dictated to all our lives. All that ended after the [1982 Argentine] invaremain very much a colony with appointed officials such as Mr Sampson running local government. All big decisions must first be approved in London, sometimes at cabinet sion. But we don't have many

British officials say in pri-

government "for no consider-

FIC's operation.



Congress looks into Sununu's travels

By Nancy Dunne in Washington

THE US General Accounting Office, the investigative arm of Congress, has begun an inquiry into the dozens of trips taken by Mr John Sununu, the White House chief of staff, nsing military aircraft for what may have been personal and

may have been personal and political purposes.

The investigation was requested by Congressman John Conyers, chairman of the House government operations committee. The Michigan Democratical and the first in properties. ocrat lost no time in pouncing on the opportunity to discredit Mr Sununu, who is heartily disliked by many congressional Democrats.

An account of Mr Sununu's trips was given in the Sunday editions of the Washington Post and US News and World Report magazine. The Post said Mr Sununu had taken more than 60 trips in the past two years which included visits to New Hampshire, his home state, and to Colorado ski

Mr Sununu reimbursed the government for the trips at the rate it would have cost him to fly commercially. However, his use of military aircraft costs thousands of dollars more.

On one trip, to Aspen, Colorado, he reimbursed the government \$1,078 (£601). However, according to the Post, the cost to the Air Force was more than \$30,000. Administration officials

rushed to Mr Sununu's defence, portraying the use of military aircraft as necessary so that the chief of staff could maintain constant communica-tions with the president.

US airline plans flights to Vietnam

NORTHWEST Airlines will be the first US carrier to fly to Vietnam since the war ended in 1975, with a flight to Ho Chi Minh City on June 25. Hanoi civil aviation officials said, Reuter reports from Hanoi. The officials said Vietnam

had approved the scheduled flights. Northwest is planning to fly to Victnam beginning 25 June, once a month, in a jumbo 747," one said. Western diplomats in Ho Chi Minh City said the flights had been cleared by the US Trea-

sury Department. Washing-ton's trade embargo against Hanoi has blocked such flights in the past.

The International Organisation for Migration (IOM) has chartered the Northwest

flights to carry Vietnamese for resettlement in the US under a bilateral orderly departure programme (ODP), foreign dip-lomats said.

Regulators propose higher capital levels for US thrifts

US SAVINGS and loan exact amount for each instituindustry regulators have pro-posed higher capital levels for the more thinly capitalised thrift institutions, Reuter

The Office of Thrift Supervision (OTS), which supervises the thrift industry, said under proposal that all but the healthiest thrifts would have to hold core capital of 4 to 5

per cent of assets or higher. Strongly capitalised institu-tions would continue to be subject to the existing minimum core capital level of 3 per cent of assets. The OTS has issued the proposal for public com-

ment over 30 days.

For those thrifts forced to meet the higher capital levels, the OTS said it will decide the

tion based on the level of risk it faces and the quality of its risk managemen

The new capital levels would ments with those put in place for commercial banks last Sep-tember by the Office of the Comptroller of the Currency.

The OTS said its proposed capital levels would not change the other two capital standards a thrift must meet. These are a risk-based requirement of 8 per cent of risk-weighted assets and tangible capital of 1.5 per cent of assets.

The OTS said all three standards were minimums, and it expects thrifts to hold more capital than the standards

Menem's fiscal policy attacked

By John Barham in Buenes Aires

ARGENTINA'S Catholic bishops have attacked the "unjust" economic policies of President Carlos Menem, blaming them for creating an ever-wider gap between rich and

In a strongly worded note ssued over the weekend, the bishop's also condemned wide-spread corruption which "is destroying us as a people and as a society."

The note, issued at the end of the annual bishops' conference, is the second time in as

many months that the powerful Catholic church has taken issue with Mr Menem. Last month they warned that "generalised corruption" was undermining support for the

government The traditionalist hierarchy's latest broadside is significant because in the past it firmly supported conservative, often military, governments. Mr Menem, although nominally a Peronist, has adopted pro-business and free market

UN 'lacks resources to fight cholera epidemic'

THE United Nations alone does not have the resources to fight the cholera epidemic ravaging
Peru and its neighbours,
according to Mr Carlyle
Guerra, the head of the Panamerican Health Organisation an offshoot of the World Health Organisation, AP

reports from La Paz.
Mr Guerra told a health ministers' meeting at the weekend that 42,000 people could die from cholera unless firm measures were taken soon. However, he turned down a request from the health ministers of Peru, Bolivia, Colombia, Venezuela and Ecuador to create a joint fund to fight the disease,

citing a lack of resources. Instead, Mr Guerra proposed m emergency programme calling for international co-operaappealing for individual nations to send aid. He said the lack of basic sanitary services, malnutrition and inefficient medical systems were contri-buting to the spread of the dis-

The health ministers, meet-

ing in the city of Sucre, 350 miles southeast of La Paz, were expected to sign an agree yesterday to adopt joint mea-sures to control the epidemic. More than 1,200 people have died of cholera already in South America - the vast majority in Peru. More than 3 per cent of Peru's 22m people have been infected, and cholera has already spread to four of Peru's five neighbours: Chile, Ecuador, Brazil and Col-

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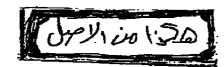
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to develop new chip technologies

By Robert Thomson in Tokyo

AT&T Microelectronics, the US electronic equipment maker, and NEC, the Japanese electronics company, will jointly develop technologies to make future generations of semicon-

ductors, they sain yesterday.

The agreement comes as washington and Tokyo are negotiating a new pact on negotiating a negotiati

negotiating a new pact on semiconductor market access in Japan, and is a sign Japanese companies intend to build closer links to the US electronics industry, in an attempt to reduce trade tension.

For the next two years, the two companies have agreed to develop jointly the manufacturing processes for further uniniaturisation, enabling them to increase the memory capacity and functions of an individual chip.

While other semiconductor companies compete to develop

or companies compete to develop similar technology, executives of the two companies said the joint effort would provide big advantages. Mr William War-wick, president of AT&T Micro-electronics, claimed developing the 0.35-micron process, as the system is known, is likely to cost \$400m (£232m)-\$500m.

A micron equals a millionth of a metre. The smaller the

micron measurement, the more advanced the chip. The next generation of memory chips, 16-megabit chips, are being developed using 0.5-micron

echnology.
AT&T and NEC are aiming for even more chip generations with the 0.35-micron technology. The companies will be

sharing sensitive technologies in ultra-fine etching and circuiting, but say they are likely to have few problems in sorting out ownership rights of

"If the patent is developed from the joint effort, it will be used by both of us. If there are necessary patents that we already own, they will be licensed for the joint work," Mr Warwick said.

The companies plan to break down the development process into tasks they call "modules", with 50-70 researchers from each company working on each module. There will be about 25 of these modules, and the two companies will exchange at least one researcher for each module, and have agreed to report regularly on progress.

The project follows a more general pact signed in March last year, where the companies agreed to co-operate in semi-conductor development.

"The relationship represents a win-win situation for both companies. Through partnering, each company shares resources, lowers individual company risks and gains timely access to technology," Mr Warwick said.

Mr Tomihiro Matsumura NEC executive vice-preside said the agreement represents "true co-operation between two multinational semiconductor companies", and proves the enthusiasm of each for "a

WORLD TRADE NEWS

US, Japan groups | The US prepares to repel Chinese software pirates

Peking is being challenged to prove that it can protect foreign intellectual property, writes Lynn Curry

NDER pressure from the US and other foreign business executives, China is attempting to strengthen its patent law and develop a code for the protec-tion of computer software manufacturers, but is hampered by

conflicting domestic interests. The Chinese government is also making efforts to revise its patent law and draft copyright regulations to protect com-puter software manufacturers, but doing so involves many Chinese companies and "could be a hard job", according to the official English language China

China's lack of copyright regulations and its limited patent law were the subject of discussion between the Chinese and a visiting US official in February.

"The concern is enormous", said the official, Mr Joseph Massey, assistant US trade representative. "If the problem of piracy of software doesn't get fixed, we will have to take action."
While software piracy is

rampant, illegal copying of other proprietary works is also widespread. Entire sections of some bookstores only sell unauthorised copies of foreign

Other examples of piracy include records, video tapes, computer hardware and even the Disney characters, Mickey Mouse and Donald Duck. The purpose of Mr Massey's visit was to determine how much progress the Chinese have made towards drafting copy-right legislation which would provide effective protection for computer software manufac-

"It's at an early stage, but we have a lot of problems with what we have seen," Mr Mas-

The trade representative said China must show progress on its draft copyright regulations before April 15, the statutory deadline under US law, when the trade office makes recom-mendations to the administration about retaliatory actions against countries deemed to be following unfair trade practices with the US.

This can result in additional tariffs on a country's exports to the US. China is already on a "priority watch" list, because of concern about the piracy problem and inadequate efforts to prevent it.

In an effort to resolve the problems, a Chinese delegation was expected in Washington in mid-April for talks on intellectual property rights and bilat-eral scientific co-operation.

China's current patent law does not provide adequate pro-tection for chemical and pharmaceutical products, according to western lawyers. It protects only the process by which a



Even Disney characters have fallen victim to pirates

compound is made, not the product. If a chemical process is altered only slightly, pirated versions of an already patented compound could be made legally in China. The Chinese

patent law, extending the pro-tection period for inventions to 20 years from the present 15 and widening protection to include the product directly according to the China Daily. But the debate is believed to be deadlocked, with some ministries supporting the proposed revision and the Ministry of

Chemical Industry fighting it. Apart from problems with pharmaceutical products, software piracy has reached epi-demic proportions in China. US software manufacturers estimate that unauthorised copying of software has resulted in \$400m of annual lost sales to

The traditional Chinese approach to copyright and other intellectual property issues differs significantly from the western view that some works have proprietary owner-

"The Chinese consider it an honour to lift someone else's work and publish it," said one Western businessman involved with copyright problems.

"The Chinese have a much hands there formulating a law harder time formulating a law which is acceptable to the west, because the idea of certain work belonging to an indi-vidual is antithetical to socialist precepts," one western lawyer said.

A vague copyright law will become effective in June. Western observers say problems with the legislation arise not only with its vagueness but with the implementing regula-tions being debated by Chinese

ulate on the time limit that a work can be protected, and it states that a foreign work can only be protected if it was first published or produced in China, according to western

Much secrecy surrounds implementing regulations which would provide more detail about the scope of the

copyright law.

Mofert is believed to favour strong copyright regulations. while ministries – such as the Ministry of Chemical Industry - with vested interests in continuing to make cheap, illegal copies of software have opposed the legislation.

"Certain ministries have been told to pirate as much software as they can, so that when the law does go into effect, they will have every-thing," one western executive "Mofert has overall responsi-

other ministries are telling Mofert to get lost."
Not all ministries are copy ing software illegally, and some do recognise proprietary

But Western analysts say that China's ability to provide adequate protection for foreign intellectual property is vital if the country wants continued access to investment and high technology.

GEC-Alsthom in FFr10bn double-deck trains order

By William Dawkins in Paris

THE FRENCH SNCF rail board yesterday placed orders for FFr10bn (£390m)-worth of double-decker high-speed trains with a consortium led by GEC-Alsthom, the Franco-British

engineering group.
This is one of SNCF's biggest orders and aims to boost capacity of its near-saturated domes-tic Train à Grande Vitesse (TGV) routes in the second half of the decade, so cutting the need for new track.

This will be greeted with relief by environmental groups, which have protested against plans to extend the 10year-old Paris-Lyon TGV line to the Mediterranean. The be the first to get the new

The double-deckers will take the expected strain on the Paris-Brussels TGV route, two years after it opens in 1993, but will be too large for the UK end of the Channel Tunnel line.

The order comes as GEC-Alsthom is negotiating against Italian, German and Swiss competition for four overseas TGV contracts due to be decided within months, in Canada, the US, South Korea and

The double-deckers will carry 520 passengers, 35 per cent more than existing single-deckers, but cruise at the same 300 kmh as the newest TGVs now in service. Each train includes eight carriages, with a locomotive at each end. The new model will not be much heavier than existing singledeckers and is estimated to have operating costs per seat 15-20 per cent below current

The contract includes firm orders to develop and produce option. Other consortium mem-bers include ANF Industries of railway rolling stock, and De Dietrich, the French electrical engineering and household appliance group. A prototype is due for delivery in 1994, with three trains a month ready from spring the next year, the target being to complete the full contract by end-1998.

Anglo-Soviet air venture set up for heavy loads

By Paul Betts, Aerospace Correspondent AN ANGLO-SOVIET cargo

airline is being set up to speci-alise in transporting heavy loads, using the Russian-built Antonov AN124 Ruslan, one of the world's biggest aircraft capable of carrying up to 150 tonnes of cargo. The joint venture airline

involves a partnership between HeavyLift Cargo Airlines, a subsidiary of the UK Trafalgar House group, and the Soviet Volga-Dnepr company. The airline is expected to start operat-ing in June, adding more AN124s to its fleet before this

year ends. The Soviet transport aircraft, equipped with on-board hoist and crane systems to load heavy goods both front and back, with minimum ground equipment, will be used to carry the largest tracked or wheeled vehicles, aerospace and space-related components, oil pollution control gear, building materials and relief supplies for international agen-

HeavyLift Cargo Airlines operates a fleet of large Belfasts, Hercules, Boeing 707s

and Guppy aircraft to transport heavy loads. Last week, it was involved in carrying equipment to combat the big spill off the coast of Genoa. Soviet officials described the joint venture as "an important contribution to developing Anglo-Soviet trade and eco-

The Soviet partner is one of the first joint stock enterprises set up in the Soviet Union. Still ultimately controlled by the state, these new enterprises do departmental control, enjoying greater operating flexibility.

nomic relations".

Volga-Dnepr has been granted the exclusive rights to operate the AN124 Ruslan, originally designed as a military transport aircraft, for commercial use, a Moscow Narodny Bank official said yesterday. The bank is acting as adviser to the project.

The venture would be largely self-financing, with the Soviet company providing the aircraft and the British group the western market outlets for commercial ANI24 cargo charters, the official added

Pakistan renews drive for economic liberalisation

yesterday announced more steps in its programme of economic liber-alisation aimed at scrapping government controls and launching a drive towards privatisation, Farhan Bokhari

reports from Islamabad. Mr Shujaat Hussain, industries minister, said foreign businessmen no longer needed to seek permits to work in Pakistan. They would only need an ordinary visa.

Mr Malik Naeem, commerce minister, announced a new export policy, with fresh incentives for Pakistani businessmen. To boost exports, the gov-

ernment would provide twothirds of the cost of setting up new institutions for improving workers' training, if business associations paid the rest. A new export-import bank

providing specialised help for Pakistani exporters was announced. A marketing promotion programme would begin soon to train trade attachés serving abroad. Officials say the government intends to sell off at least one-

third of Pakistan's 150-strong public-sector units by the end of this year. The exports drive is aimed at ending Pakistan's \$2bn annual trade deficit.



UK NEWS

Retail trade surges but trend weak

By Rachel Johnson

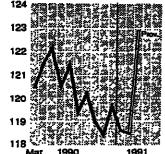
BRITAIN'S high streets saw their sharpest increase in business for almost 12 years last month, as shoppers hurried to beat the April deadline for budget increases in excise and VAT, the tax on goods and series.

Retail sales figures from the Central Statistical Office yesterday showed that volumes rose by a provisional 3.7 per cent in March, after a fall of 0.1 per cent in February. This was the largest monthly

rise since June 1979, when there was a similarly unex-pected decision to raise VAT. This increase had a particu-larly marked effect on sales of large electrical goods, televi-

UK retail sales

Volume 1985 = 100



sions, furniture and carpets in the last two weeks of March, according to the Retail Consor-

according to the ketan Consor-tium, which says it represents 90 per cent of the industry. The budget's indexation of excise duties on alcohol led to "excellent" sales of wines and spirits ahead of the price increases on April 1. However, trends in retail

sales remain depressed. In February, a provisional 1 per cent rise was revised into a final 0.1 per cent fall.

EMPLOYERS' SURVEY OF INNOVATION IN BRITISH INDUSTRY

Investment better than most in EC

vation by UK businesses, in spite of the recession, emerges from a survey by the Confederation of British Industry, the employers' organisation.

According to the CHI's sec-ond annual innovation trends survey, 55 per cent of UK manufacturing companies are satisfied that their spending on innovation is adequate to meet future competitive pressures, while 37 per cent think it is

The survey contrasts sharply with the tone of last month's House of Lords report on inno-vation in manufacturing industry, which claimed that Brit-ish-owned manufacturing

BRITISH GAS faces the

prospect of a Monopolies and

Mergers Commission investiga-tion if it fails to agree in the next week to major revisions in the formula it uses to set the price of gas for 17 million domestic and small business

The company was last night finalising its response to an 11-month review into the pricing

formula It said it would

respond to proposals made by

the industry regulator by the end of the month.

(Ofgas) is apparently planning to turn the review over to the

Monopolies and Mergers Com-mission if British Gas does not

respond in the next week. The review of the pricing formula

is the first since British Gas

was privatised five years ago. If British Gas accepts Ofgas's

The Office of Gas Supply

British Gas pressed

to review price policy

A SURPRISINGLY upbeat industry could almost disappacture of investment in innovation by UK businesses, in abandon its "hands-off" atti-

Mr John Banham, CBI director general, said yesterday there was no sense of compla cency in its trends survey. But he added that "the facts do not sit well with the conclusions of the Lords committee - translated into plain English they were wrong."

Mr Banham said UK busi-

nesses spent £6.5bn on research and development in 1989, a higher proportion of gross domestic product than any other European Commu-nity except Germany. The sur-vey showed that on balance this was being maintained last

proposals, it will face tighter controls on standards of ser-vice and a less generous pric-

ing formula, which should bring some easing of energy

ers of gas, it must force British

Gas to set public standards, for example on call-out times.

At the moment British Gas

can increase prices by the rate of general price inflation, less an efficiency clawback of two

The company is also allowed to pass on to customers all

Gas users have complained that this structure provides no incentive for British Gas to

seek lower-priced supplies of

ses in the cost of North

percentage points.

ssures for consume Ofgas is arguing that in the absence of competitive suppli-

"All is by no means gloom and doom, which is what you might conclude if you were an avid reader of the Lords

report," he said.
Two thirds of the 336 compsnies taking part in the survey spent up to 5 per cent of sales on innovation - which is defined as the development of new products, processes and services - and just over one

fifth spent up to 10 per cent.

The survey identified a marked trend downwards in the use of consultants, and a rise in expenditure on joint ventures or co-operation with other companies, particularly overseas. New regulations, especially tougher environmental rules, were seen by some companies as an opportunity, and by others as a threat.

Mrs Flona Steele, in charge of the CBFs technology and innovation policy, said the sur-vey showed that UK companies saw an increasing competitive threat from EC and other UK companies, rather than from Japan and the US. She can-tioned, however, that the sur-vey was intended to identify trends rather than absolute

The survey was carried out in October and November, and follows a more limited pilot study of trends in 1989. It is sponsored for five years by National Westminster Bank's

Tesco chairman paid £1.48m last year

SIR Ian MacLaurin, chairman of Tesco, the grocery chain, received total remuneration of £1.48m last year, representing a steep increase on his previous year's basic pay of

The pay of the chairman of Britain's second-biggest food retailing chain advanced by £45,000 to £390,000. In addition, however, he received a sub-stantial boost from the inclu-sion of £1.09m in performancerelated incentive payments.

The payments related to a scheme introduced in 1988 which linked directors' bonuses to performance of

earnings per share.

Over the three-year period Tesco's earnings per share rose by 71 per cent, a performance which few other companies in the retailing sector could

Four of Tesco's other execu-tive directors benefited strongly from the incentive scheme. Last year, one earned over £610,000, another more than £665,000, and two are bracketed in the £785,000 to 2790,000 pay range. In total, the amount paid out

to all directors by Tesco in the year to February 23 1991, increased from £2.24m to £6.74m.

On an annualised basis, however, these incentive awards appear more moderate. Next year the directors will receive only £1.8m between them under the incentive scheme as opposed to the accumulated three-year total of £4.33m they received last year. The growth in Sir Ian's remuneration fol-lows a series of big rises for senior executives at a number of the UK's largest companies.

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Minimum wage plans dealt blow

Plans of the opposition Labour Party for a national minimum wage were dealt a further blow when the AEU engineering union rejected a second attempt by the Trades Union Congress in two weeks to resolve an inter-union dispute on the

issue.

Mr Bill Jordan, AEU president, said suggestions that the pay of skilled workes should be held down was "not only economic madness but will be implemented over this union's dead body."

Failure to find a meaningful compromise could leave the Labour party open to charges.

Labour party open to charges that it and the unions have not resolved the pay bargaining dilemmas which were instrumental in bringing down the last Labour administration in 1979.

Managers' pay rises by 13%

British managers' total pay rises slowed only slightly in the January to March period leaving them on schedule for a full year's increase of 13 per cent in 1991. That is the finding of the quarterly executive pay index produced by Noble Lowndes, management consultants and actuaries.

In the first quarter the average total pay for all ranks of executives rose by 3.3 per cent to £71,683. The rise compares with a 3.5 per cent increase for the first three months of 1990 and a rise for the whole of last year of 13.8

Supervisors and booking Young lack basic tuition

One in three primary schoolchildren is not being taught to read and write properly, the school orate disclosed.

In a report on the tation of the national curriculum, the inspectorate found widespread teacher shortages, cramp conditions, few schools with adequate libraries, and insufficient attention paid to instruction in basic reading and writing skills. Only in iwo-thirds of schools was the

teaching and learning of English held to be satisfactory. The report will fuel with "new-fangled" teaching methods. Mr Kenneth Clarke, he education secretary, has asked the Council for the Accreditation of Teacher Sducation to report to him

on the preparation of teachers to teach reading.

Jobless outlook stays bleak

The outlook for employment will remain bleak until 1994, says Business Strategies, a research consultancy, in a report published today. The consultancy says the

jobless total is likely to rise by about 400,000 to 2.4m in 1994, and most new employment opportunities will be in low-productivity areas such as health services.

Royal attack on education

Prince Charles, the Prince of Wales, launched a
wide-ranging assault on the
failings of the education
system. "Here in Britain we m to get it wrong alm seem to get it wrong almost before we have begon", he told a conference to mark Shakespeare's birth at Stratford-upon-Avon. He deplored the shortage of nursery education, the low

stay-on rate among 16-year olds, excessive specialisation at sixth-form level, and the collapse of the old apprenticeship system. He condemned as "almost incredible" current literacy levels, attacked "so-called" education experts for talking 'unmitigated nonsen expressed astonishment at the absence of Shakespeare from some GCSE and "A" level

BBC travel change

English courses.

Most of the BBC's transport services in London are to be contracted out with the loss of 114 staff jobs. More than 40 companies tendered for the ntracts which will save the

BBC £500,000 a year. Vehicle maintenance and management car contracts will stay in-house.

Tube staff vote to strike

cierks on the London Underground have voted to strike over cuts of up to 1,800 jobs and changes in practices, despite preparations by the corporation to suspend any employee who takes part in industrial action.

The Lallot held by the TSSA

white collar union will be followed next week by the result of an industrial action ballot of 13,000 members of the RMT transport union working on London Underground over the same issue. The RMT has threatene a series of one-day strikes after London Underground refused to negotiate on job losses and changes in working patterns intended to help

reduce an anticipate loss of The dispute has crupted at the same time as annual pay talks at British Rail which resume today, and threatens a repeat of the industrial

Underground in 1989 at the same time as a dispute at British Rail

N-warheads 'unsafe'

Britain's latest nuclear weapon, the Trident II warhead, should be redesigned, suggests a draft report from Basic, a London-based think-tank which specialises in critiques of Nato policy. The study also calls for a halt to all movements of nuclear weapons in Britain while an independent review is made of their safety in

storage and transport. Basic's report draws upon criticism of US nuclear weapons levelled by independent scientific assessors over a year ago, and assumes that British weapon designs relate closely to their US counterparts.

Howe joins US law firm

Sir Geoffrey Howe, former deputy prime minister, who resigned from the governmen last November in protest over Mrs Thatcher's stance on Europe is to join a US law firm, Jones Day Reavis and Pogue, as a London-based usuitent on Euro

matters. matters.
Sir Geoffrey practised law for 20 years before entering politics in 1964. He has amnounced that he will not he standing for Pari at the next general election.



Geoffrey Howe: leaving

Britain comes out of shell

Millions of Britons put aside natural reticence to fill out forms for a national census designed to help policy makers and planners shape Britain's

future into the 21st century.
The job of profiling Britain,
which involves 135,000 data collectors and 28m questionnaires, comes once every 10 years, so the 1991

The questionnaire, which had to be filled in on Sunday, drew fire from religious groups, gay rights activists, academics and feminists as eing too intrusive or too vague in its questions. Others feared the information would be cross-checked with tax records or passed on to businesses that could use it

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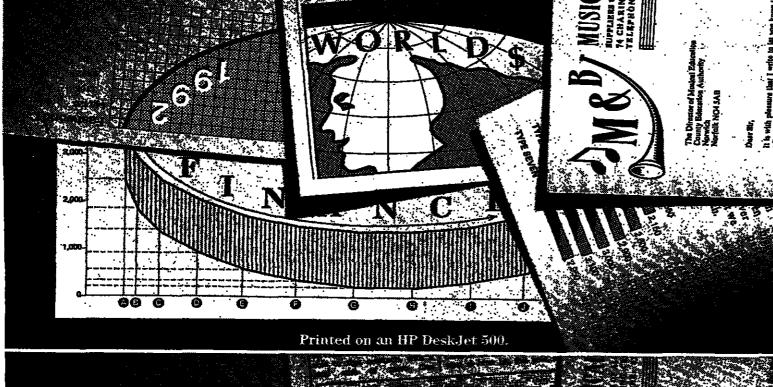
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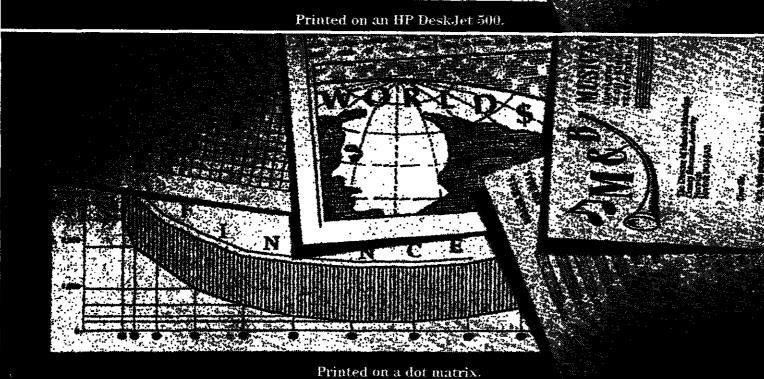
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History waits for a solution to the great mistake Philip Stephens traces the story behind today's announcement of a replacement for the poll tax BACK in 1981 when Mrs Margaret Thatcher first pushed for the abolition of domestic rates, Mr Michael Heseltine offered a simple solu-

tion to her most pressing con-The environment secretary told the prime minister that if her main worry - and that of her main worry - and that of the Tory party confer-ence - were the high bills faced by little old ladies living alone in large houses, the answer was simple. He would make local authorities give them a big discount

them a big discount. The rest is history. Mrs Thatcher did not take his advice. Mr Heseltine moved on and then out of the cabinet. The prime minister solved her problem by replacing the rates with the poll tax. Mr Heseltine pushed her out of Downing

pushed her out of Downing Street.

Today Mr Heseltine, back at environment under a new prime minister, will outline the details of his plan to replace the poll tax — with a property tax which will give a 25 per cent discount to little old ladies living alone in large ladies living alone in large

On his announcement rest the hopes of Mr John Major that the government can finally exorcise the most disas-trous political misjudgment in The important details have already emerged; and despite



of talk of further consultation, the scheme will represent a firm proposal rather than an

At first glance the result looks a neat synthesis of politi-cal imperatives and economic logic, though the realistic in Whitehall are still unsure of how strong the joins are.

The tax will be levied on property classified in seven bands according to capital value. Bills will be applied to households - with an assumption they contain two adults - rather than to individuals.

The poorest will be exempted entirely. The present system of grant distribution using Stan-

dard Spending Assessments fatrer than the poll tax. The will remain, as will draconian "capping" powers to prevent "excessive" spending. There is little talk nowadays of preserving "local democracy".

The economic logic is there is the foot that a recognity to the content of the content

in the fact that a property tax restores a relationship between individual wealth and the size of bills. The Duke in his stately home will pay more than the dustman in his council flat. The Treasury, which has always regarded property valnes as a reasonable proxy for both wealth and income, is satisfled. So too are the politicians who can claim this makes the tax "fair", or at least much

Margaret Thatcher ignored advice from Michael Heseltine and went on with the poll tax

little old lady, whose income has not kept up with the rising value of her once-family home, gets the 25 per cent discount. The political compromise, however, reveals itself in a decision to compress and then
"cap" the bills which can be
spolied to the different bands.
The government will set the
bands nationally along with strict "multipliers" to regulate the proportion of revenue raised from properties in each

house worth, say, £1m or more in band 7 will not be more than 2.5 times higher than for the

flat worth £40,000 in band 1. So the system will be progressive - about 90 per cent of house-holds will be unaffected by the "cap" on band 7 - but like the present income tax structure only up to a point.

Mr Heseltine bopes this com-

promise will calm Tory fears that a return to any property tax would automatically create a swathe of "losers" in the

The budget switch of more than \$4bn of local taxation to the VAT should ensure that average bills across the country should not be much more than £350 a household. The multipliers will prevent councils from loading the burden on to southern Tory voters who have benefited from the sharp rise in property value over the past decade.
Bills for similar properties

will not be identical across the country. A three-bedroom sami in London will typically be in a higher band that a similar house in northern Barnsley, so will attract a higher bill. The Treasury thinks it should – in-comes are higher in London than Barnsley. But the politi-cians will control the size of the differential.

It all looks ingenious, and ministers are convinced that it will work. This time, they insist, the Treasury is fully behind the new system. It has been tested on the computers

in Great George Street as well as those in Marsham Street. There is even a figleaf for those still wedded to the principle that all should contribute to the cost of local services. Mr Heseltine will argue that the two-person household which the tax assumes will capture 38m of the 42m adults liable to

There is still though one serious weakness. Whatever the initial level of bills, the commitment to the Uniform Business Rate means that any local tax will be highly "geared". A 10 per cent rise in spending beyond that allowed for in government grant would produce a 70 per cent rise in bills. More than one senior minister is convinced that it the UBR cannot survive it its present form. But talk of raising the tax burden on industry is for after, not before, the general election.

TODAY's announcement of

the replacement for the politax will signal a Tory bid to fight the second half of the local government election camlocal government election campaign on their own terms – by directing attention at high-spending opposition Labour party controlled councils. Mr Chris Patten, the Tory party chairman, launched a document giving examples of Labour "mismanagement, inefficiency, failure and lunacy".

Belgian move over export bid likely to embarrass London

By Peter Montagnon, World Trade Editor

MANAGEMENT of Cobac, the private sector Belgian credit insurance company, is to rec-ommend to its board this week that it pull out of the bidding race for the short-term credit insurance business of the Export Credits Guarantee

Department.
The decision will embarrass the government by weakening the field further, just as the controversial privatisation leg-islation is scheduled to come

before the House of Lords. Mr Jason Radick, Cobac's Managing Director, said yester-day that the move reflected doubts about the availability of reinsurance cover for credits to politically risky developing countries. Whitehall policy on this meant British exporters "would be at a structural dis-advantage to their competi-

tors," he said.

He added he was "extremely disappointed" by the move earlier this month from Mr Tim Sainsbury, trade minister, to overthrow an amendment to the privatisation bill which would have required Whitehall to provide political risk rein-

Without such government

after the privatisation.

cover the newly-privatised ECGD would have to charge very high premiums or sacrifice its rate of return, he said.
Cobac follows Eagle Star to become the second of six short-listed bidders to pull out of the race. With another, Sun Alli-ance, still considering whether to submit a bid by the April 30 deadline, the field has begun to

thin out rapidly.
Export credit bankers say they expect the race to end in a battle between NCM, the Dutch credit insurer, and Trade the UK domestic credit insur-

ance market. The Cobac decision will reinforce exporters' efforts to reinstate the three year govern-ment reinsurance commitment when the bill comes before the House of Lords.

It comes as big exporters, mount a fresh but discreet campaign to prevent what they see as a concerted effort to withdraw government support for exports to developing coun-

The business of insuring long-term credits will remain a government responsibility even after the privatisation of ECGD's short-term business.

Ulster job laws 'reduce religious discrimination'

By Our Belfast Correspondent

NORTHERN IRELAND'S radical new employment laws were beginning to have an impact on religious discrimina-tion in the workplace, Mr Bob Cooper, chairman of the province's Fair Employment Com-

mission, said yesterday. Mr Cooper was commenting, following publication of the FEC's first significant religious profile of the Ulster work force, based on monitoring information provided by all public and private sector firms employing more than 25 workers.

The data covers almost 350,000 people employed by 99 public bodies, and 1,758 private concerns and covers about twothirds of the province's total

per cent Catholic, and 6 per cent non-determined.

When the Commission assessed the last 6 per cent, the ratio was found to be 65 per cent Protestant and 35 per cent

The Commission estimates the total working population to be around 62 per cent Protes-tant and 38 per cent Catholic. Although the figures suggest that the numbers of Catholics in jobs are almost in line with those available for work, the small percentage variation has a significant difference on

Male Catholics remain twice as likely as Protestants to be unemployed, with under-representation particularly preva-

lent in senior positions. Catholics are also under-represented in the public sector where their reluctance to apply for jobs with the security forces exacerbates the situa-

Mr Cooper said that on a scale of between 1 and 10, Northern Ireland probably rates 5 or 6 in its efforts to provide equality of opportunity in the province's work places.

He added: "The pattern exhibited in this report constitutes a promising base on which to build whatever future work force.

The breakdown showed that

action is necessary to promote equality of opportunity effec-

Ireland, "The Commission has already embarked on discussions about the need for affirmative action in those companies where there is evident under-representation of either

A Profile of the Workforce in Northern Ireland - A Summary of the 1990 Monitoring Returns (Research Report No. 1). Available from the Fair Employment Commission, Andras House, 60 Great Victo-ria Street, Beljast, BT2 7BB, Price 55 partifica Price £5, post-free.

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Cathay services to Heathrow increase competition for BA

By Paul Betts, Aerospace Correspondent

Kong carrier, will become on May 1 the second international may I me second mentadata airline to offer new services from Heathrow following the government's decision to open the world's busiest international passenger airport to all

The start of Cathay's daily non-stop service between Heathrow and Hong Kong will further intensify competition for British Airways at its home base of Heathrow.

BA is already facing flerce

competition on its lucrative transatlantic services from United Airlines, which started flights to Heathrow this month after winning approval to takeover Pan Am's London ser-

A total of ten international airlines, which had been barred up to now from operating out of Heathrow, have so far successfully applied for rights to start services at London's leading airport.

Royal Brunei will follow Cathay next month with a twice weekly service starting on May 7 from Heathrow to Bandar Seri Begawan stopping

at Singapore and Dubai. Virgin Atlantic, Korean Airlines and All Nippon Airways are among other airlines planning to start new Heathrow

services this summer. These services are expected to lead to an even tougher fares and promotion war between airlines vying for pas-sengers at a time when air travel continues to be relatively depressed. Although there have been some tentative signs of a recovery in air

CATHAY PACIFIC, the Hong Kong carrier, will become on May 1 the second international travel, airlines do not expect the situation to return to nor-mal growth levels until much later this year. Sir Colin Marshall, BA's

chief executive, warned in a speech in Los Angeles that the airline's passenger volume was not expected to recover to pre-Gulf War levels until September or October. BA's traffic felling per cent in March com-13.2 per cent in March com-pared with the same month

last year.
Mr John Dance, Cathay
Pacific's UK manager, said that
low fares had not helped to increase the overall size of the market. "The market has in fact contracted and low fares appear to have had no effect so far," he said.

far," he said.

However, Cathay intended to match all the promotions and lower fares offered by BA, although he added: "I hope when we get to the peak season, there will be a bit more sense seen by carriers."

Cathay is revamping its first and business class as part of its efforts to attract more highpaying passengers. The new services will be launched this winter together with a new business class lounge at Hong

Kong airport. Mr Dance said it was important for Cathay to operate out of Heathrow as well as Gatwick to match BA's ser-

Heathrow would also give Cathay access to about 50 per cent of the UK market. Cathay currently flies two

daily services from London to Hong Kong but is already con-sidering introducing a third daily flight from London.

When experience has taught Lufthansa concept of service you that service is the secret also includes the DM 1.2 bilof success, naturally you ex- lion we invest every year in pect that others have learned the same lesson. Especially when you put yourself in their hands when you are travelling. And that's exactly why Lufthansa will never

abandon its uncompromising commitment to the very highest standards of quality and service. That's why, for instance, we are constantly expanding our network, so that today we can offer you connections to 188 destinations all over the world. But, even more important, the

an unrivalled servicing and maintenance system. One that's meticulously carried out by over 11,500 highly qualified technicians. And, wherever you look, you'll discover that the same passion for perfection is shared by all Lufthansa staff, who are constantly "at your service" all over the world. Whether you are at the airport, on the plane, or at your final destination. Quite simply, Lufthansa service is your personal passport to a "bon voyage".



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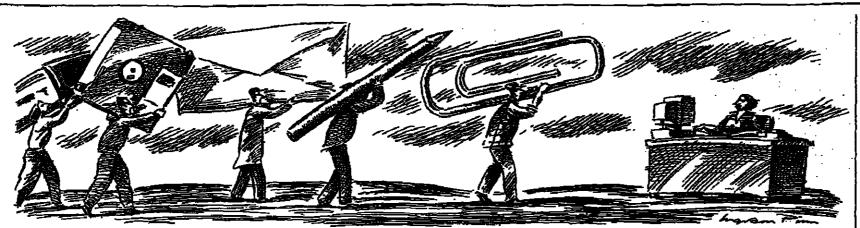
hile the price of com-puters has halved over the past five years, the cost of distributing the finished product has continued to rise. Faced with the need to sell twice as many computers just to maintain have begun to focus on how they can reduce the cost of their distribution systems.

Digital Equipment, with European sales of \$5.2bn (23bm) in 1989/90, has halved its distribution costs over the past five years. One way it has done this is by cutting the computers in stock, down from 12 weeks' supply to three and Further ways of cutting the costs have been created at Dig-

ital's European distribution centre in the Netherlands. Staff at the Utrecht centre no longer carry order papers around the warehouse. Instead, the warehouse is served by fork-lift trucks fitted with small keyboards, visual display units and a miniature aser gun for reading barcodes The day starts with the driver signing on to the computer and taking note of the first instruction of the day. This information consists of a string of numbers which defines the precise location of the computer to be collected, including the aisle, shelf and position of the computer in its box as well as the order for the computers to be stacked, with the most robust equipment at the bottom. When the driver approaches the box he confirms it is the correct one by reading the barcode label on the side with the laser gun.

"The technique eliminates all possibilities for error," says Co Berendsen, manager of the Utrecht centre. An attempt by a driver to collect the wrong box generates a warning signal and if he ignores this he will not receive instructions for his next collection.

Berendsen says that the introduction of radio communications has cut the time taken by the fork lift trucks to do the job by 40 per cent. "Accuracy has also increased and the trucks no longer do journeys around the ware-house without a load."



At the sharp end warehouses, broken pallets and diesel oil. But the of a supply chain As Flat shows off its robot-controlled inventory stacks in glossy advertisements and IBM switches off the lights in its automated warehouse in Greenock, it is clear that this Cinderella operation has a new set of high-tech glad rags. Britain's high street retailer Marks and Spencer has long appreciated that sophisticated distribution processes are an

Dave Madden explains how United Stationers has turned the distribution of its goods into a fine art

based near Chicago, sells products from around 400 manu turers to some 10,000 retailers across the US, via 14 regional distribution centres

istribution is one of

the duller business ghettos - dusty

image, and the reality, are

beginning to change.
As Flat shows off its robot-

distribution processes are an

important part of supply chain management. They influence

customer loyalty, product dif-ferentiation and profit mar-gins. According to Lee Iscocca, chairman of Chrysler: "The company with the best distri-

bution systems and service level will win all the marbles."

In short, advanced logistics is no longer a luxury. One con-sequence of this shift is the

emergence of a new type of

wholesale service company

where distribution is just as

important as the product that

Take paper clips. If you are an office products wholesaler,

how do you get retailers to buy such a simple, undifferentiated item from you, rather than from any number of your com-

The answer, in the US at

least, is "value-added" distribu-tion. United Stationers, the country's biggest office prod-ucts distributor, can sell and ship a single pencil or one box

of paper clips and still make a

items in its catalogue, from

pens to filing cabinets. And if a

customer places an order by 6.00 pm it will be delivered by

9.00 am the next morning to any location in the US.

Not surprisingly, this demands an extensive physical operation. United Stationers,

The same is true on all 25,000

This physical network is entirely dependent on a com-plex computing and telecommunications infrastructure: Amdahl 5995 and IBM 3090 mainframes supported by robotic storage devices from Storage Technology as well as telephone and satellite communications networks. In all an incremental investment of some \$200m (£115m). United's customers obtain

information on the company's inventory via a computer net-work which connects their machines to United's system of 1,400 PCs. This automates the ordering process and allows clients to see whether United has a particular product in stock. 'Our customers enter upwards of 70 per cent of our orders for us," says Patrick Murray, IT vice president. "We do it in lots of different ways. We talk to everybody's com-

we do it online - however a customer requires it." Ultimately, Murray expects United's terminals to be on the desks of his customers' customers too, and he intends to apply the same technology to links with his own suppliers. Ordering is only part of the value-added process. The sooner the retailer knows that

puter. We do it in batch mode,

United has shipped goods, the sooner he can bill his customer and collect his money, says Murray. Similarly United uses the system to get the latest manufacturers' pricing infor-mation to these retailers, so that they can manage their

Giving retailers such access to and control over the ordering and inventory process, and the imperative to turn orders around in hours, has had seri-ous implications for United's warehousing operation Items are not stored in pre-

United can sell and ship a single pencil or box of paper clips and make a profit

defined areas. Rather, they are put in the next available bin, as dictated by United's disparate product range; boxes of pencils and desks do not take up the same shaped space. The warehouse map is computer-controlled and the system tracks every individual batch

Surprisingly, this random binning is not completely arbi-trary. The system is able to analyse the inventory and track "hot" products - high moving items - and guide them to where they are most

manually put into store, staff use radio frequency data entry terminals, complete with barcoded reading guns, to update the control system directly on

The logical extension of all this, says Murray, is to use similar tools and the same bar code in the transportation and delivery process so that a driver can verify that the right carton has been dropped at the right door, and give proof of delivery. United hopes to introduce such an innovation this

The same integrated technology feeds United's sales and marketing effort. Its primary marketing tool is a catalogue of products, and United pub-lishes and distributes some 4m opies a year. But because the catalogue

becomes out of date almost immediately after it is issued (with products being added or dropped), Murray has to pro-vide regular updates. He is hoping in the near future, however, to produce an electronic catalogue, with colour pictures, dimension data and moving price information. At the hub of United's opera-

tion is a central IT develop-ment and operations staff. Typically this is pared to the bone 40 people to manage data and voice communications, systems operations and a help desk (there is no computer

expertise in the regional cen-tres). In addition, Murray has 100 staff in applications devel-opment and product introduc-

The effect of this technologi a the commitment is two fold, Murray says. First, United has grown significantly — it is now a 11hn company, and one of just four national office product distributors in the US. ncts distributors in the US. Second, its technology culture has enabled United to set pioneering service levels.

For example, Murray explains: "We are doing lots of small orders. About 80 per cent of what we sell is not in the same packaging that it came to us in. We don't sell a whole carton of paper - we'll sell one ream. Now the service we provide for our reseller says you go out to each of your customers and you take the orders the ay they want them.
"You send the orders to us

and we'll package them in such a way that they can be delivered directly to the end user and you don't have to add labour. When we put the label on the box the label says it came from you not from us. Our dealer doesn't have to handle the merchandise at all. The most profitable dealer is the gny who never sees the mer-chandise, absolutely never sees it at all.

The downside is that higher expectations become institutionalised. Because United delivers anywhere in the US by the following day, and guaran-tees to be in stock on all of its inventory, that has become the service norm.

Similarly United cannot afford to let up on its technical innovation. Murray claims that the company currently has a lead of six to 12 months, but "the competition is pretty good at copying - so we better have the next thing coming up to keep the gap open. To get the order we've got to be the easiest company to do business

Software directive makes users losers

By Alan Cane

seemingly meritorious efforts over the pest couple of years to

protect suppliers of computer

software from piracy, a mess

compounded by the peculiar procedural requirements of the European Parliament.

To recap briefly. Two years

ago, an EC directive was drafted with the alm of har-

monising measures to outlaw software piracy across the member states.

It specifically forbade unau-

thorised reverse engineering -analysing a piece of software to understand what its does and

was flawed in that while reverse engineering is used by software pirates, it is also a

key technology for computer manufacturers. They need to

be able to attach their equip-ment to that of their competi-

tors; computer users have to be able to modify and extend their

It is unlikely the authors of the draft fully understood the implications of their work. The

directive suited PC software

suppliers and the larger manu-

facturers - namely IBM and Digital Equipment - but out-raged their smaller competitors and customers. The competi-

tors, including Groupe Bull

and Olivetti, formed a lobby called the European Commit-tee for Interoperable Systems

(ECIS); users formed the Computer Users of Europe.

sion. IBM and Digital saw the directive as a way of defending

their software against the Jap-

anese. The issue became a war or words fought between the

US and Japan in the cockpit of

Commissioners in Brussels

and Members of the European

Parliament in Strasbourg are

by now no doubt heartily sick of the issue. They have been lobbied mercilessly by repre-

sentatives from all sides of the

dispute for the past 12 months.

There was a second dimen-

existing software.

how it does it. That propo



TECHNICALLY SPEAKING

A compromise solution or "Common Position" reached in December which proved satisfactory to the soft ware suppliers and the big computer manufacturers, but left ECIS together with computer users across Europe concerned about the legitimacy of reverse engineering for mainte-nance or to facilitate the interconnection of one maker's

computer with another.

These issues were addressed in a series of amendments which came before the European parliament last week. Some 235 MEPs voted for the amendments, 89 voted against and 197 abstained. But under EC rules a minimum of 260 MEPs have to vote in favour of an issue for it to pass.

The directive now goes back to Brussels for final ratifica-tion later this year. Some nations — the Netherlands, italy and Spain among them -are expected to adopt the mea sures as they stand; France, Germany and the UK will have to modify their existing copyright law. The overall result is that the

big manufacturers and the software suppliers seem to have all they wanted; the smaller manufacturers are discontented but prepared to live within the terms of the directive while users are confused and angry.

What is now likely to happen is a series of court battles in each member state as users squabble among themselves to define the exact interpretation of the directive with regard to reverse engineering. There is still the possibility that new proposals can be put to the Commission after the effects of the directive have been sed in practice. Perhaps mechanism would benefit from a spot of reverse engineering?



FINANCIAL TIMES CONFERENCES

AEROSPACE AND COMMERCIAL AVIATION IN A RAPIDLY CHANGING WORLD

11 & 12 June 1991, PARIS

An international conference to be arranged immediately prior to the Paris International Air Show.

Assumptions about the future for the industry are being reappraised in the light of events over recent months, including the economic difficulties in many countries and the effects of the war in the Gulf. The intention in holding this conference, which has the support of GIFAS and Air & Cosmos, is to bring together industry leaders to share their views on the future prospects for the industry.

Speakers will include:

M. Henri Martre **Aerospatiale**

Mr Stuart Iddles Airbus Industrie

Mr Brian Rowe **GE Aircraft Engines**

Mr Olof Lundberg INMARSAT

Mr Louis J Williams

Mr Joseph W N Nyagah

Mr Richard R Albrecht Boeing Commercial Airplane Group

M. Louis Gallois

Dr Johann Schäffler

Mr John Weston British Aerospace Military Aircraft Limited

Mr Karel van Miert Commission of the European Communities

Mr Boris E Panyukov Minister of Civil Aviation, USSR

The language of the conference will be English/French and simultaneous translation will be provided.

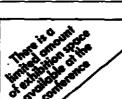
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FINANCIAL TIMES CONFERENCES

THE MARKET IN ASSET-BACKED **SECURITIES**

London, 19 & 20 June, 1991

Securitisation techniques now enable companies and banks to issue bonds backed by a diverse range of assets, from mortgages and car loans, to trade receivables and property.

At the Financial Times conference on asset-backed securities, speakers will review the range of financial markets and asset-types involved as well as examining legal and regulatory problems and structural issues.

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Mr Craig J Goldberg Mentill Lynch & Co

Mr James J Rice Linklaters and Paines

Mrs Valerie Pancrazi Compagnie Bancaire

Mr Roland Ward The Mortgage Corporation Limited

Mr John Van Deventer nan Sachs International Limited

Mr Ian Hay Davison Credit Lyonnais Capital Markets

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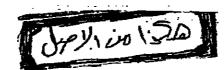
Mr David Sloper Abbey National Treasury Services pic

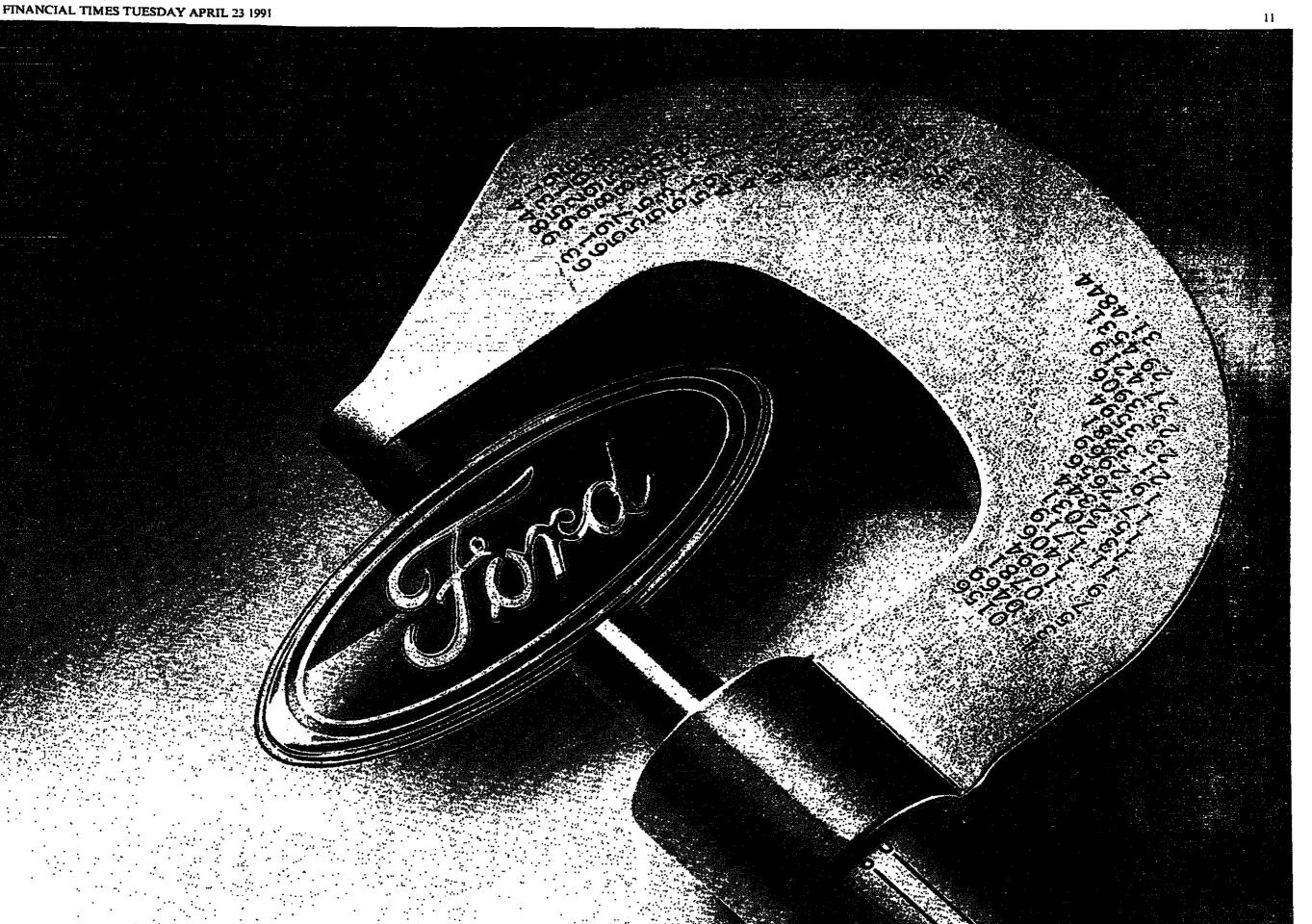
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while the local authority eco-

nomic development unit might have details of sites available.

The availability of informa-tion about local business sup-

port also needs to be improved, the report says. Businesses

requiring assistance should be able to get help by making not more than two telephone calls.

Many organisations advocate

the grouping of different help organisations under one roof

but the development of infor-

mation technology makes this

less necessary, the study

tion technology between pro-viders of business support is

viders of outliness support is patchy and compares unfa-vourably with the systems in use in continental Europe. The study urges better pub-licity about business support groups through the publication of directories and tree mage.

of directories and free maga-zines. The local authority also has an important role to fulfil

in promoting a positive image

of the area.

As a next step Business in

the Community has set up a target team to investigate good

practice in other European countries which could be applied in the UK.

gues. However, the use of informa-

Lower overheads and

increased productivity

Charles Batchelor on the benefits of off-site production

Subcontracting

tor of Ingersoli Engineers, a

Rugby-based consultancy.
The present recession, which

has made companies even

more aware of the need to

reduce costs, is providing a spur for more businesses to

subcontract out parts of their

operations. Manufacturing savings, together with reduc-tions in other areas such as

premises and stocks can allow

businesses to finance the restructuring of their operations from their own

Frequently the crunch comes

when a business decides it

needs to modernise its produc-tion capacity. Gent, a Leices-

ter-based manufacturer of fire

detection and alarm equip-

ment, took a hard look at its

metal fabrication shop when it

was planning a move to a new

machines making rings, contacts, even screws," says

Andrew Robinson, managing director. "We realised our main

strength was electronics so we

strength was electronics so we didn't want dirty, oily activities alongside. In addition our tooling was getting old and it would have taken a big invest-

ment to replicate."

Gent, which has sales of

£24m and which forms part of RTZ Corporation, shed most of its metal fabrication activities.

The buy-in value of the abandoned components was only 2500,000 a year and the profit

improvement was less than

£100,000 but the saving in

terms of the "distraction

value" to management of these

peripheral activities was signif-

icant, Robinson says.
But there are further consid-

erable benefits to be gained

from buying in or subcontract-ing parts of a company's activi-

• Deciding to buy in rather

than make can have an impor-

tant impact on the market-

awareness of a company, argues Brian Small Companies

which make a fetish of manu-

facturing all or most of the

components required are less

likely to be oriented towards

the needs of their customers.

available in French.

Dietmar Kopitz

Chief Engineer

Case Postale 67

Broadcasting House

London WIA IAA

Bob Nelson

BBC

CH-1218 Grand-Saconnex

INVITATION TO TENDER

European Broadcasters

Executive Development Programme

• Small businesses may be

We had lots of ancient small presses and turning

resources, savs Small

Capitalists

go public

By Charles Batchelor

BRITISH venture capital

companies are increasingly

willing to consider making direct investments in small

publicly-listed companies, according to UK Venture Capi-tal Journal*. This would mark

a significant shift in the indus-

confuse investor perceptions of

reasons for this development:

• The increasing size of ven-

ture capital investments in

recent years, in particular the industry's involvement in fin-

ancing buy-outs, means there would be little difference in

scale between the funding

needs of quoted and unquoted

companies. Thirty four per

cent of the 1,700 companies

with a full stock market listing

are capitalised at less than

£20m while 70 per cent are val-

There is little difference

between the management style

of smaller quoted companies

and those remaining private.
 As their portfolios matur

more venture capital com-panies have holdings in com-

panies which have obtained a

Investments in listed compa-nies are potentially attractive

because they are more easily disposed of while smaller

quoted companies have tradi-tionally outperformed large

companies, the journal notes.

On the downside venture capitalists might be hard put

to explain to their own backers

why they should invest in quoted companies by means of a venture capital company

when they could invest directly in the stock exchange. The venture capitalist would

also have difficulties gaining

the same detailed information

from a listed company that he

demands when making a pri-

vate company investment.

Despite these drawbacks more venture capitalists are insert-

ing discreet clauses in their

fund-raising prospectus which would allow them to make

direct investments in listed

companies, the journal notes.

Among recent listed com-

pany deals it identifies a

£14.2m investment in Hunter

Saphir, a food group, in the form of convertible preference

shares, by 3i, County NatWest Ventures and CIN Venture

ued at less than £100m.

listing.

venture capital.

try's traditional role and could

The journal signals three

If Holdings, a Slough-based company which supplies audio equip-

operations and to subcontract the work to Remploy, which provides manufacturing ser-vices to a wide range of busi-

nesses.
Elf will cease manufacturing

at its Brighton factory and

hand over responsibility for

making products such as cas-

sette recorders and public

address systems to Remploy's factory in Islington, north Lon-don. Some of the Brighton

employees will switch to repair

and service work but the over-all result will be the loss of 10

jobs, reducing Elf's workforce

Chris Crump, managing

director of Elf, expects that the

move to subcontracting will

reduce production costs and relieve it of the burden of cop-

ing with an uneven order flow.

(Remploy produces for many

companies so it can control its

own workload.)
Elf, which has sales of £2m,

will assemble kits of compo-

nents and deliver them to Rem-

ploy though it may later arrange for its suppliers to

deliver directly to the subcon-

Crump, who joined Elf a

year ago to ginger up a flag-

ing performance, says he con-

sidered moving production to Slough but this would still have required him to make a

judgment on the size of the

workforce he would need to meet fluctuating demand.

Sourcing products from the Far East was not an option

either because schools fre-quently require modifications

to the standard items Elf sup-

products has meant that large companies in areas such as

automobile manufacture and

engineering have long moved

to extensive subcontracting of

specialised components.

Increasingly, smaller compa-

nies are turning to subcon-

tracting, either to reduce the cost of getting started or to

bring down the overheads of a

long-established activity. Small and medium-sized

businesses, those employing fewer than 500 people, account

for no less than 82 per cent of

Remploy's customers and 61

per cent of its turnover, the

for the smaller company, with its limited resources, to focus

'It is even more important

company calculates.

Managers.
*12 Barley Mow Passage, London W4 4PH. Tel 081-994 8009.

on certain activities and succontract out the rest," says Brian Small, managing directions.

The European Broadcasting Union in

association with the BBC. Finnish YLE.

Belgian BRT and RTBF, Dutch NOB and others

invites applications from interested companies, consulting practices or business schools to conduct

a management development programme for senior

The common strategic threats and opportunities faced by European broadcasters have generated a

executives in European broadcasting companies.

common desire to equip managers with the

throughout Europe for the 1990's. All EBU-

member companies and corporations have

context of national development practices.

management development programmes which

to build on these individual initiatives to forge

Companies or organisations interested in

greater union for the common benefit of all.

address the needs of individual companies in the

However, European broadcasters collectively wish

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Production specialists say that before considering whether to buy-in rather than make a particular item managers must decide which activities are core to their company's survival. High value items and products which involve confidential design features and manufacturing techniques. manufacturing techniques should always be made in-house, says James Byers of Ingersoil Engineers. Stock items such as nuts, bolts, bearings and washers, or loss mak-ers essential to the company's range should be contracted

In addition, managers must be prepared for a short-term disruption of production when they subcontract work out. "We had a few teething prob-lems in the first six months," says Gent's Andrew Robinson "It was not easy to get someone else to make items which our own skilled workers had

een making for 20 years." Managers must monitor the relationship with the subcontractor very closely. One start-up business which sub-contracted out the plastic injection moulding on which it depended was set back for a year when it was forced to replace a large number of prodreplace a large number of prod-ucts which customers returned as being faulty. "We assumed there would be someone at the subcontractor who had an overall view of the project but there wasn't," says the com-

But the difficulties do not always lie with the subcontractor. Companies are frequently unrealistic in their forecasts of production volumes, says Edward Selby, business man-ager of Remploy's southern ager of kemploy's southern region factories. Managers sometimes misjudge the mar-ket for their product but they may also deliberately exaggerate volumes to negotiate a keen price from the subcon-

Nor is it unknown for man-

pany's executive director.

agers to order wildly excessive volumes of raw materials. "If a customer thinks his product will sell for a number of years he buys a massive quantity of raw materials. If a juggernaut pulls up outside your door with three years' worth of materials it is difficult to tell the cus-tomer you can't let them in," Selby explains. Subcontracting should not be seen as an easy way of disposing of the com-plexities of running a manufacturing operation, the experts warn. But properly handled it can have a significant impact on costs and on the ability of a smaller company to service its

Clubbing together else's product. Production specialists say in a local network

ocal authorities should be required to assess the economic impact on small and medium-sized businesses of all policy proposals they make. This is one of the recommendations made in a study* of local support networks carried out by accountants Coopers & Lybrand Deloitte and Business in the

Community.
Councillors and local government officers should be encouraged to think through the impact of their programmes on local firms with the aim of reducing the burden on busi-

The models for this sugges-

tion are the economic impact

assessments required by the European Commission and the UK government on draft legis-A first step to building a healthy local business environhealthy local business environ-ment is to identify key players in the community, the study says. These would include the local council, businesses, the Training and Enterprise Coun-cil (Tec), enterprise agencies, chamber of commerce and higher education.

These organisations should

These organisations should agree the outline of the future economic development of the area and identify their role in achieving it. Enterprise agencies should be best placed to counsel small

*Local support for enterprise. **

*Anailable from Peter Vernon,

Coopers & Lybrand Deloitte,

Killgate House, 26 Old Bailey,

London ECAM 7LP, Tel 071-583

5000 Free businesses; the chamber could provide information on conti-Charles Batchelor nental European markets;

> ■ A new guide to help businesses which are considering setting up in France and executives who are going to live there has been published by accountants BDO Binder Ramlyn. Doing business in France describes financial and legal implications of running the French branch or subsidiary of a firm based in another country. It covers accounting and audit, foreign investment restrictions and tax. Available from Sally

In brief...

The Loan Guarantee Scheme, under which the government guarantees 70 per cent of the value of loans to small businesses unable to provide normal security, is to come under scrutiny. The Department of Employment has commissioned a private consultancy to evaluate the scheme which has backed 27,900 loans worth £890m

■ William Stevens, 26, has been appointed secretary general of the European Venture Capital Association (EVCA), an organisation which promotes the interests of venture capital in Europe. Stevens, a Belgian and a graduate of the European

replaces Yves Fassin who has held the post for the past three

School of Management, has worked at EVCA as project

Brunning, BDO Binde Hamlyn, London EC4M 7BH. 54 pages. Free.

BUSINESS OPPORTUNITIES

Andrew Robinson: when it moved to new premises, Gent decided to shed most of its metal fabrication activities

able to improve quality control

by handing over responsibility for manufacturing to a large, more sophisticated subcontrac-tor. "If something goes wrong

Remploy's quality control can pick it up," says Robert Belcher, managing director of Manrose Manufacturing, a sup-plier of domestic fans. Both

Remploy and Manrose's sup-

plier of plastic mouldings have obtained BS5750, the main UK

standard for quality control,

but Manrose itself has yet to qualify. Increasingly, custom-

ers are requiring suppliers to conform to this standard.

a customer even out uneven

order flows and hold-ups in the

supply of components. Hay-

ward Tyler Fluid Dynamics, a Luton-based manufacturer of

specialised pumps, has subcon-tracted out fabrication and

plating operations accounting for 5-10 per cent of total activi-

ties as part of a far-reaching

restructuring programme. Hay-ward Tyler employs 250 people,

down from 440, and has sales

"This will give us flexibil-

A subcontractor can help

ity," says Roger Harrop, chief

executive of Hayward Tyler and of its parent company, Sterling Fluid Systems. "It will be easier to switch off a sub-

contractor than our own peo-

ple." The company's plating shop had anyway only been

used for three days a month, he adds.

Sub-contracting can also

improve a company's cash flow. Instead of paying weekly

wages to the shop floor work

force the company moves to paying the subcontractor on 30

or 60-day terms. The company can also set the cost of the

subcontractor's services imme-

diately against profits whereas

investment in capital equip-ment usually takes place over

a number of years. But the decision to subcon-

tract out parts or even all of a

business's manufacturing

operations can be highly

charged. Some companies

believe the benefits of subcon-

tracting outweigh the loss of total control of their activities.

Others are sensitive about

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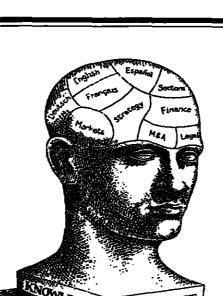
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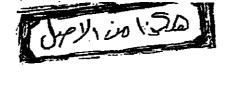
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(In Administrative Receivership)

The Joint Administrative Receivers offer for sale the business and assets of the above company which specialises in the manufacture of nuclear waste containers and other specialist engineering products. ☐ Long leasehold factory and offices of 12,000 square feet in

☐ Tumover for 8 months to 28 February 1991 approximately £1m.

Specialised workforce.

Contracts in progress and significant potential order book.

For further information, contact Ken Chalk or John Cowburn at the

Abbey House, PO Box 500, 74 Mosley Street, Manchester M60 2AT. Tel: 061 228 3456. Fax: 061 228 2681. **DRT** International

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NORBRECK CASTLE HOTEL Blackpool — 340 rooms

OUEEN HOTEL

Chester — 90 rooms

EARL OF DONCASTER HOTEL Doncaster — 53 rooms

BURLINGTON HOTEL

Folkestone — 59 rooms **CUMBRIA GRAND HOTEL**

Grange-over-Sands — 123 rooms

CAIRN HOTEL Harrogate — 135 rooms

Full details of this group of hotels are available from the Receivers' sole agents, Messrs Robert Barry & Co. 7 Upper Grosvenor Street, Mayfair, London W1X 9PA. Tel: 071-491 3026. Fax: 071-629 9373.

Offers for individual hotels are not likely to be of interest.

8 Baker Street, London W1M 1DA. Tel: 071-486 5888.



ROBERT BARRY

Horwath-

CRAIGLANDS HOTEL

HOTEL METROPOLE

Loch Lomond — 91 rooms

MANOR HOUSE HOTEL

Stoke-on-Trent — 69 rooms

ROYAL YORK HOTEL

York — 148 rooms

Moretonhampstead — 69 rooms

NORTH STAFFORD HOTEL

Ilkley - 71 rooms

Leeds — 114 rooms

TARBET HOTEL

A member of Horwath International Authorised by the Institute of Chartered Accountants in England and Wales to carry on investment business

STOY HAYWARD Accountants and Business Advisers

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Sale of Electronic Components for Television and Video Industry

By order of the Administrators, L. K. Denney FIPA and J. Wilson FCA

Walker Walton Hanson will sell by auction the stock and equipment of Serviscope Electronics at the following depots:

> Crawley 30th April 1991 2nd May 1991 Birmingham 8th May 1991 Bristol 14th May 1991 Gateshead 21st May 1991 Doncaster

including:

Office furniture, computer equipment, test equipment, electronic

components, televisions, video recorders, racking, etc.

Detailed catalogues of the above sales are in the course of production and available at £1 each from the auctioneers: Walker Walton Hanson, Dept SS, 5 Byard Lane, Bridlesmith Gate, Nottingham NG1 2GL Telephone: (0602) 584631. Fax: (0602) 588820.

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Scan Kolor Ltd (In Receivership) 6/~ Nr. Leeds

A medium sized repro

company specialising in mail order, magazine and brochure work:

 Highly skilled workforce of 35 Equipment which includes: two page make up systems linked to an Apple Mac, one

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97 Grant Thornton

9 Fax: 0274 390191 The U.K. member firm of Grant Thornton International. Authorised by the Institute of Chartered Accountants in England and Wales to carry on investment business.

Ark Clinics Ltd (In Receivership) 374

West and South London DO S

The above company runs 6 veterinary practices. Annual turnover £1m

• Freehold property in Battersea • 5 leasehold premises in secondary retail positions

For further details please contact the Joint Administrative Receivers: Maurice Withall or Iain Allan, Grant Thornton, Melton Street, Euston Square, London NW1 2EP Tel: 071-383 5100 x 2413

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Arcbitectural Metalwork Specialists

The Joint Administrative Receivers ofter for sale the business and assets of B&H Welding Engineers Limited

- Established 12 years Skilled Workforce
- Valuable order book and
- work in progress Leasehold premises in Basingstoke, Hampshire -

Metal Treatment

Specialists

The Joint Administrative

Receivers offer for sale the

business and assets of AAA

Established 8 years

Leasehold premises near

Metal Treatment Limited

Winchester, Hampshire -

Turnover £400K

10,000 square feet

11,500 square feet Turnover £1.1m Anodisers

The Joint Administrative Receivers offer for sale the business and assets of Penn Anodising Company Limited

- Established 20 years
- Leasehold premises in Penn, Buckinghamshire - 10,000
- Tumover £1.2m

Sbotblasters and Painters

The Joint Administrative Receivers offer for sale the business and assets of Peterborough Blasting and Coatings Limited

- Established 7 years
- Skilled workforce
- Premises in Peterborough, Cambridgeshire
- Turnover £500K

For further details of any or all of the above please contact Jason Elles, Administrative Receiver, Ernst & Young, Apex Plaza, Reading, Berkshire, RC1 1YE. Telephone: 0734 500611. Fax: 0734 507744.

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Pertmaster International Limited (In Receivership)

Bradford

The above company is a publisher of project management software, including substantial ongoing software support and training revenues.

- 1990/91 sales currently £1.6 million
- Outstanding customer list, including over 3,000 blue chip industrial, Government and Defence clients.
- Highly skilled direct sales, technical support, training and software development workforce total 25
- New generation product nearing completion
- Associate company in California plus 1,200 US customer
- Experienced management team, mainly southern based For further details please contact the Joint Administrative Receiver: Scott Barnes, Grant Thornton, St Johns Centre, 110 Albion Street, Leeds LS2 8LA. Tel: 0532 455514 Fax: 0532 465055

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Troika Limited

(In Administrative Receivership)

Stratford-upon-Avon The above company, produces

and markets a wide range of corporate and other gifts.

- Freehold Premises
 Substantial Stocks
 - Order Book
- s Pigg Annual Turnover £1,790,000 Prestigious Customers
 - For further details please contact the Joint Administrative Receiver: Roy Welsby,

Grant Thornton, Enterprise House. 115 Edmund Street Birmingham B3 2HJ. Tel: 021 212 4000 Fax: 021 212 4014

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CLOSING BIDS BY 12 NOON FRIDAY 3RD MAY 1995

On the Instructions of the Joint Administrative Receiver of Ivy Hill Hotels Ltd and Furze Hill, Christic & Co offer The Saracens Head Hotel

Chelmsford, Essex
Town centre horel. 18 ensule bedrooms. Lounge bar (30), 70 cover
restaurant/buttery. 2/3 conference rooms for 100. Annual turnover
April 1990 £649,387 es VAT. Freehold Price on Application

Ivy Hill Hotel Margaretting, Nr Chelmsford, Essex aent 3 star Hotel adjacent to A12, in extensive grounds, 18 ensuite oms, planning for a further 14. Car parking, Bar and lounge (30), restaurant (24). Turnover to April 1990 \$257,000 ex VAT.

Furze Hill Restaurant and Conference Centre Margaretting, Nr Chelmsford, Essex
2 storey Victorian mansion. 120 cover restaurant. 200 cover
conference/banqueting sulte. Office accommodation. Swimming pool and tennis court. Ample car parking. Large grounds adjacent to Ivy Hill Hotel. Turnover to April 1990 £639,525 ex VAT.

Freehold Price on Application. Please contact Timothy Gooding in the Hotels Department of Cartstie & Co's Ipswich Office tel: 0473 256588 or alternative

Paddy Jeffries in the Corporate and Acquisition Lundon Office

OHRISTHE & CY CORPORATE & ACQUISITION

The Colchester Mill Hotel East Bay, Colchester, Essex

Extended and refurbished 3 star town centre hotel, 61 bedrooms, all with facilities. Restaurant area (128), bar and 2 conference rooms. Self contained night club for 600. Car parking for 300. Annual turnover to 29 April 1990 £1,283,406 ex VAT. Price: Offers in excess of \$2,750,000 for the freehold interest

and as a separate Freehold Investment

The Siege House

let on a term of 99 years to a UK Pic from 24th July 1980, five yearly reviews. Rentable income £66,000 per annum Freehold. Offers in excess of \$750,000

Please contact Tim Gooding at Christic & Co., 16 Lower Brook Street, Ipswich IP4 1AP. Tel: 0473 256588. Fax: 0473 230071. Alternatively contact Paddy Jeffries, Corpor and Acquisition Division, Christic & Co., 50 Victoria Screet, London SW1H ONW. Tel: 071-799 2121. Fax: 071-222 0081.



SkyAero Limited

The assets and trade of SkyAero Limited are offered for sale as a going concern. The Company, which is located at Tonypandy, South Wales manufactures a range of UPVC windows, doors and conservatories together with double glazed sealed units for sale to the trade.

- Annual turnover £4m.
- Modern leasehold premises of 50,000 square feet.
- Established markets throughout the western half of the U.K.

Committed workforce with full range of technical skills.

For further Information contact the Joint Administrative Receivers, Barry Mitchell and Stephen James, KPMG Peat Marwick McLintock, Marlborough House, Fitzalan Court, Fitzalan Road, Cardill CF2 1TE. Tel: 0222 482483 Fax: 0222 481605.

KPMG Peat Marwick Corporate Recovery

JR Group plc **Jade Interiors Limited Quodeck Limited Key Components Limited** (All in Receivership)

Reading, South Wales and Cornwall This established group specialises in the development and

manufacture of merchandising systems and the supply and manufacture of handling and storage equipment, principally to the garment trade.

- Turnover £7.5 million +
- Blue chip customer base
- Skilled work force • 150 employees
 - Light engineering facilities
 - Freehold and leasehold premises

For further details contact the Joint Administrative Receiver: Maurice Withall, Grant Thornton, Grant Thornton House, Melton Street, London NW1 2EP Tel: 071 383 5100 Fax: 071 383 4077

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- Top producer, distributor and retailer of records, tapes, CDs and videos
- Market leader within its tentrories Prime retail locations
- Current contracts with major artistes
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Vergehurst Limited (In Administrative Receivership) trading as

Available for sale the goodwill and assets of this Cambridge institution, which

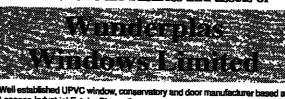
has been trading from the same premises in Trumpington Street since 1924 and farnous as Master Bakers

- Confectioners Chocolatiers and
- For further details contact Mark Palios or Nigel Flackham, Cork Gully, Mount Pleasant House, Huntingdon Road, Cambridge CB3 OBL Tel: 0223 313611



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The Joint Administrative Receivers offer for sale the business and assets of



Langage Industrial Estate, Plymouth.

 Recently constructed 12,200 sq. ft. freehold factory. Modern production facilities.

Turnover in the region of £2 million per annum.

 45 employees Current order book of \$250,000.

For any further information, please contact Alistair Grove or lan Walker of Cork Gully, Mayllower House, Armada Way, Plymouth, Devon, PL1 1LD. Tel: 0752-66888, Fax: 0752-604108.

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Cork Gully

Parkfield Foundry-

Stockton, Cleveland The Joint Administrators offer the business and assets of this foundry for sale as a going concern. Brief details are as follows:

- Manufacturer of SG iron tunnel sections and other SG components
- Sales of £10m p.a. to automotive and transportation customers
- 7 acre treehold site Facilities include automated boxless casting lines, with cupola melting
- Prestigious customer base and forward order book For further details please contact: S C E Mackellar at Parkfield Castings. Parkfield Road, Stockton-on-Tees, Cleveland, TS18 3EZ Tel 0642 673014



Available for sale the goodwill and assets of

Safety Devices (Ingineering) Limited

(In Administrative Receivership) The largest UK manufacturer of roll bar cages for rally cars.

- The business comprises:-Large quantity of finished stocks
- Trading names "Aleybars" Plant and machinery including jigs

Experienced workforce

For further details contact Mark Palios or Keith Raie, Cork Gully, Mount Pleasant House, Huntingdon Road, Cambridge, CB3 OBL. Tel: 0223 313611 Fax: 0223

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- Sales exceeding £2.5m Long leasehold premises with large car park
- Price £2m (inc surplus cash £0.75m)

Contact Countrywide Amalgamations Premier House, 22 Deansgate, Manchester M3 1PH TEL: 061-831 7116 FAX: 061-833 2146

Salston Manor Hotel Ottery St. Mary, Devon

Property and assets of the hotel division of Ross Clark Hotels Limited for sale as a going concern

- Established Fast Devon Country Hotel
- Freehold Grade II listed building in 6 acres 27 bedrooms, restaurant, conference rooms, indoor pool, health centre and sports facilities

Convenient for M5 and Exeter. Exeter airport 6 miles.

For further details, please contact the Joint Administrative Receiver: Mr. Vivian Bairstow FCA FIPA

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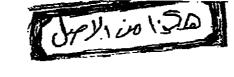
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37 Frederick Place Brighton Sussex BN1 4EA Tel: 0273 206788

For Sale

Health fruit drink recently developed with existing orders. Current anticipated turnover £600,000 based on sales to date. An immediate opportunity for purchasers interested in nutritional drinks. Contact: D E Bawtree

THE BUSINESS SECTION ALSO APPEARS ON PAGE 28.



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Snowy wastes focus the mind

William Packer on the Canadian exhibition at the Barbican

he True North is the self-consciously evocative, not to say portentous title of the exhibition that now fills the upper tier of the Barbican Art Gallery (until June 16: sponsored by The Daily Telegraph and Air Canada). But while its sub-title, "Canadian landscape painting 1896 - 1939", might well give us pause, with thoughts inevitable of something more frozen, dull and provincial than exciting, for once the more hopeful expectation is not disappointed. As is so often the case with national schools. the case with national schools, Canadian painting has been for far too long too well-kept a secret, to the general loss. What the Barbican now offers us is quite simply, within its own terms, as intriguing and physically enjoyable a show of well-made, honest paintings as we could wish for The study of art is littered in

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Kville Hole

paradox, not the least of them that which suggests that the more national, even local the work might be, the wider its general interest and significance. So steeped are we in the idea of Paris as the very heart of modernism through all its earlier phases, that we too easily accept that franco-centric reading at its own self-valuation, seeing everything else as but second-hand, second-best and provincial. But, paradox again, Paris was indeed at the heart of things, and artists came from across the world to see and respond to what was being done, and measure their own art by its standards.

The traffic was ever all ways, and in the first decades of this century many of these expatriates clearly held much in common in that was quite distinct from Paris. The more

true to themselves they were. The Canadians were no exception in this, but they might as well have been otchmen or Scandinavians, Spaniards or Mexicans, Americans or even Japanese. The mistake was only to forget, or rather discount the fact that artists went on working wherever they were, thinking of home when they were in Paris, and quite often remembering laris when they

were home.

But while this question of national self-identity is common-place, it is true that it has concerned Canadians to a peculiar degree. The looming, over-bearing presence of the US, the sense of existing along a narrow southern fringe with, at their back, the immense wilderness stretching endlessly away to the Farthest North, has always concentrated their minds wonderfully. In their artists it must surely account for the often self-consciously exhortatory quality of their writings, urging each other towards a position that is truly Canadian; for the constant groupings and regroupings of clubs and societies; and above all, for the epic and celebratory aspect of so much of the work in this exhibition. This last especially is a quality held in common with certain of the contemporary Scandinavian and Icelandic painters, but here so much more forceful

and intense.

The show begins with the work of the young artists who were in Paris well before the turn of the century, where they they were able to respond directly to impressionism in its later moods and phases, and to early developments in post-impressionism. These are not the most dramatic images, but their accomplishment and



"The North River' by Maruice Galbraith Cullen, 1932 Jackson, Varley, Johnston and Carmichael, the landscape takes on an almost mystical presence, not personal exactly but alive in its physicality, the

incontestable, two views of 1906 by Maurice Cullen, across the St Lawrence river to and the St Lawrence river to and from Quebec, as subtle and exquisite in their suggestive tonality as any Monet, and the most beautiful in the entire show. Suzor-Coté, Clarence Gagnon and James Morrice, make up this first most distinctive and distinguished erroup. group.

But the best known group,

and indeed central to the whole study of Canadian painting in the early 20th century, is the Group of Seven, which came together informally in the 1910s and formally constituted itself just after the Great War. With certain individual artists loosely associated with it, such as Tom Thomson who died in 1917 and, much later, Emily Carr, it addressed itself consciously to the landscape not merely as a visible phenomenon, but as a moral

rich paint on the surface. Landscape, image and experience alike are beautifully observed, realised and felt.

As much is true of the work of Tom Thomson, perhaps more so, which is as impressive as anything here, though shown separately by the accident of his early death. If the exhibition does nothing

more than establish his wider

space across the lake, the form

over the mountain febrile in definition, fraught with feeling.

Cloud, mountain, lake and forest alike are simplified and

celebrated almost as symbol

and totem, the individual tree or rock itself become a

monument. But there is rather more to it than simple

symbolic signification. The works are beautifully painted, and with a raw but contained

energy in the drawing, and

more than worthwhile. The show is rounded off by the later work of those artists who continued, by Emily Carr's overt symbolism, by younger, artists such as Charles Comfort, and by perhaps the most idiosyncratic and particular of them all. David Milne, whose delicately mannered touch exquisitely combines any number of modernisms, from

impressionism on.

Back to the Seven for a moment, Arthur Lismer and Frederick Varley were both from Sheffield and their work is the subject of a coincidental exhibition, Our Home and Native Land, organised by the Sheffield City Art Galleries, which comes to Canada House next month (May 3 to June 18). Showing them as it does in depth, it is a necessary pendant to this Barbican exhibition. Un-Natural Traces, which fills the Barbican's lower gallery, is a complementary show of

Prokofiev symphonies

One of the most interesting features of the current "Russian Spring" series on South Bank is the programming on two weekends of all seven Prokofiev symphonies. This is much rarer than it ought to be; and even individually, the fortunes of the symphonies are mixed – the First ("Classical") and Fifth are played a lot, the Sixth slightly less often, and the remaining four very

In addition, the chance to hear the seven given in chronological order, as the two BBC Philharmonic weekends allow, tells one a great deal not only about the development of an important composer, but much that is central to the whole notion of a "Russian Spring" in music. For, while Prokofiev may not have been a revolutionary composer in any committed ideological sense, it is in his brilliant, audacious, and copious musical outpourings that we come to appreciate most fully the trends of the immediate pre- and

nmmediate pre- and post-Revolutionary period.
The BBC Philharmonic under Edward Downes played the "Classical" and the Second on Saturday evening (separated by Nikolay Demidenko's superlatively fine democracy superiarvey ince account, technically impeccable, formidable, sparklingly witty, of the First Piano Concerto) and the Third and Fourth on Sunday afternoon (the rest follow, in similar programme divisions and time. and timings, next weekend). The "Classical" (1916-17) is a jeu d'esprit indicative of the saucy wit and love of 18th-century forms and counterpoint that would stamp Prokofiev all his life. But from there to the Second is a big, fascinating step; and under Downes's sympathetic and knowledgeable guidance it was

able to take it.

The following three works, all scored for gigantic forces, are stepchildren of the repertory; the Second (1924-5), a piece of steel-and-smoke musical machinerv unparalleled in Prokofiev's output, is the most neglected and misunderstood of the trio - unsuccessful at its Paris premiere, apt to be dismissively viewed even now. The title of Mossolov's

notorious short ballet, Iron Foundry, could with some aptness serve as its subtitle, though in the second movement, a set of theme and variations, there is relief, of a quietly and mysteriously beautiful kind, from the pounding, braying and chains of dissonances (all of which Downes and his orchestra clarified with masterly patience). The Second is not exactly a decorous or tidy plece of symphonic construction (Prokofiev never got round to revising or rescoring it, as he planned). But in a carefully considered performance such as we heard on Saturday, the wealth of combative, rhythmically intricate, densely vibrant material it contains can knock an audience sideways.

The next two symphonies gained their existence via a different route: both are re-thinkings of existent material, the one operatic, the other balletic, and so it is understandable that both, while no less thunderous at climaxes, should be cleaner and trimmer in their proportions. And both, in their different and more mature ways, seem to mark the most artistically striking point of balance between the "iconoclastic" Prokofiev and the "popular". Both contain extraordinarily

rich and exciting invention: their blends of sounds and and sweepingly lyrical by turns – are like no other I know. The Third (1928) is the symphony that Prokoflev drew from the opera The Fiery Angel (which Downes will be conducting – happy news! – at Covent Garden in two seasons' time); the Fourth (1929-30, revised 1947) is an adaptation and extension of material from the ballet The Prodiaal Son.

Whether or not Prokoflev was a symphonist in the traditionally understood sense is a question that has been hotly debated before, and will no doubt be again; but it seems to me that, particularly in the Third, with its depiction of worlds earthly and demonic, of states of mind "normal" and wildly out of kilter, a discourse of confronted opposites is very much in the fabric of its four movements. While the Fourth does not grip the listener in quite the same way, the diversity of its sound-worlds comic-pastoral, sparkishly is even more immediate in its

I formed the impression perhaps unjustly, that of all the works on the bill of the first BBCPO weekend, the Fourth had been the one least precisely prepared. There were patches of scrappy ensemble, and it was here that one noticed most often the orchestra's relative narrowness of string tone (the brass played expertly throughout). But in Downes's hands, lack of orchestral inflation was an interpretative feature, and a wholly positive one, of both concerts: while performances of more extravagantly virtuosic, or "Russian", characterisation are easily imagined, those of more musicianly style and substance can hardly be. On to next

Max Loppert

Robert Wilson's 'Night before the I

In the work of all the Seven:

Paula Deitz on the American director's latest presentation: a retrospective exhibition of his work together with his latest production, Ibsen's 'When we Dead Awaken'

obert Wilson, the theatre director, writer, designer and artist, was born in Waco, Texas, lives in New York City, and has preferred to work in Berlin, Paris and other cultural capitals of Europe. During the past season, though, Boston and Cambridge have et year, with two opportunities for world of premieres that will travel across the country. They mark a new stage in his

Wilson's stock-in-trade is to give concrete form to a combination of visionary images and gestures gleaned from daily observation. Placed in a theatrical, indeed operatic setting, these fragments are made to cohere by a third ingredient – the attention and imagination of his audience. In many ways, he is closer to Wagner

than Ionesco, for though the absurd may be buried in the material, it is the epic themes and variations, repetitiously unfurled during long performances like those of Einstein on the Beach, that shape the disjointer parts into a memorable whole. And even where a performance may lag, there is the architecture of the set and his painterly use of light that make the experience more than just a worthwhile

At the Museum of Fine Arts in Boston, Robert Wilson's Vision, the first retrospective of the artist's work in a decade, is as much a performance as an exhibition. And across the Charles River in Cambridge, the American Repertory Theatre at Harvard premiered Wilson's production of Henrik Ibsen's last play, When We Dead Awaken, which will now be moving with the exhibition to Houston, Texas, and, one would hope, to other cities here and shroad

discipline can channel creativity into unusual depths, and here an 1899 play (Wilson usually writes his own scripts) whose symbolist themes are compatible with Wilson's techniques, has given the director a chance to cut loose in amazing ways. Not the least of these are the inclusion of some hauntingly beautiful blues songs, composed and sung by tap dancer Charles "Honi" Coles, sometimes with the whole cast, during the "Knee Plays", the brief performances in the intervals that are the joints between the acts. Both the exhibition and the play are accompanied by sound environments composed by Wilson's longtime collaborator, Hans Peter Kuhn.

In designing the exhibition, a work of installation art in itself, Wilson created a journey through three major galleries that, like any classical drama, suggests the passage of a single day. "The Night before the Day," as he calls the installation, features objects and furniture used as props, drawings, paintings, maquettes and actual sets from his past productions.

The entrance through a long dark

corridor sounds like a wind tunnel with

distant bird calls and leads to a room the colour of dawn, where, among other objects, his hanging wire mesh chairs and tables are doubled by their perfect shadows on the walls. Such objects as the Japanese-style puppets, used in "Knee Plays" during CIVIL Wors, and the glass and neon lightbulb from Death Destruction and Detroit are elegant in themselves though somehow

Harris, MacDonald, Lismer, reputation, it will have been

nuded of their active stage roles. More illuminating are the black-and-white drawings of his stage designs that convey with solid and luminously transparent planes the great sense of stage distance he achieves. One drawing, for "A Letter for Queen Victoria," demonstrates how something as simple as the back of an envelope can inspire the diagonals of his stage design. The final gallery, dark as night, is aglow with the moving lights of the grid – like the interior of the spaceship from the climax of Rinstein on the Reach: being so close to it fulfills an audience fantasy of nting to be in it.

Having recently seen a more traditional production of When We Dend Anaken performed by the Jean Cocteau Repertory in New York, I am convinced that Wilson has given a more thoughtful and penetrating interpretation of this enigmatic play, which Ibsen saw as the epilogue of his previous works. The new translation is by Robert Brustein, the ART's artistic

Rubek, the famous but ageing

sculptor who attempts to rekindle his creative spark, rejects his young, earthy but boring wife, Maya, for a kind of spiritual meeting with the model, Irene, who inspired his greatest work and who may or may not be alive. The sets of mountainous seaside scenes, with the starkness of the terrain. The "music" of clanking metal and roaring sea evokes a desolate landscape as well. But the constructions, as of a metal cage cum labyrinth where Irene and her keeper, here her inner self, take interminable walks, add to the psychological force of the dialogue.

The sets and costumes recall the sombre beauty of 19th-century Scandinavian landscape and figure painting. Wilson has hewed to the force of the script and each act takes his audience higher into the mountains in a natural ascent to the fatal avalanche. The line from Charles "Honi" Coles' first song - "I was alone when I met her/ Now I wish I was alone" - becomes a good refrain for

When We Dead Awaken will be presented by the Alley Theatre in Houston, Texas, May 22 - May 26. Robert Wilson's Vision will go on exhibit in Houston at the Contemporary Arts Museum, June 15 - August 18 and at the September 12 - December 1. AT&T is the corporate sponsor.

SEMPER OPERA, DRESDEN

immensely rewarding to be

One's heart goes out to Dresden. With blackened stone ruins still peering out of the rubble in parts of the city centre and socialist architecture dominating the rest, the people now face another form of reconstruction – their economy, their livelihood, their With industry at a standstill

tens of thousands out of work and a growing disillusionment with the promises made at reunification, what priority does music have in people's lives? The city's two main music institutions - the Semper Opera and the Dresden Philharmonic Orchestra - will survive, but much of the cultural substructure will not. The first night of Osud was less than three-quarters full. That says less about the Dres-deners' lack of curiosity (or about ticket prices, which are still extremely low), than that they have other preoccupations in these hard times.

Osud marks the end of an era: it is Joachim Herz's last production in Dresden. He has worked there in comparative obscurity for the past ten years, but his production style and cantankerous personality have made him superfluous to the incoming artistic team led by Christoph Albrecht. Herz's decision to take the Saxon state government to court over the ending of his contract

makes a sad spectacle.

Osud illustrated two classic traits in postwar German opera production - a natural anima-

tion of the stage, releasing the inner impetus of the music, which is Herz's inheritance from Walter Felsenstein; and a congenital tendency to over-interpret. Act one was beautiful. Reinhart Zimmermann's per-manent set consisted of a gently stepped wooden plat-form, which together with Eleonore Kleiber's costumes preserved the period charm of Janacek's setting. Behind lay a wall of large slanted mirrors, reflecting the stations in Zivny's relationship with Mila ing, the exchange of roses after one of Zivny's concerts. But the chief distinction lay in Herz's choreography of the spa scenes - the sedate bourgeoi-sie, the carefree couples, the brood of schoolgirls - so that everyone on stage was an indi-vidual, without a trace of the artificial movement that has become synonymous with Herz's successors at the Komische Oper.

The domestic setting of Act two was suggested by little more than a settee, a kitchen dresser and a precipitous flight of stairs. Here Herz depicted the interlocking pressures on Zivny - mother-in-law, cre-ative crisis, marriage strains, alcohol problem - through a series of equally convincing Having respected Janáček's awkward but viable dramatic

outline thus far, Herz then made a complete mess of the final act. Zivny's tortured solos were transposed to the beginning, as he wrestled with skele tons of the past (bombed-out buildings, machine-gunfire and the usual German militaristic clichés) in an attempt to reactivate his creative inspiration. After a shortened conservatoire scene, with Mila reincarnated as the impressionable student Souckova, Zivny ended up in a mental clinic. For anyone who saw the ENO and Dusseldorf stagings in the mid-1980s, both of which were faithful to Janaček's original, Herz's solution was nothing tative hack-work.

No such reservations about the musical performance, which was consistently inspired. The rhythmic buoyancy and clean, light-fingered articulation of the orchestral playing under Hans Zimmer showed that the Staatskapelle can be as idiomatic in Janáček as they are in Richard Strauss. Zivny was sung by Michael Rabsilber, whose pointed Germanic high tenor and sensitive acting made him a near-ideal interpreter. In spite of being handicapped by dark glasses and a spooky white cape, Kerstin Witt as Mila's mother acted the disintegrating old harridan to the hilt. But the chief glory of the performance lay in Vlatka Orsanic's Mila, a vibrant, radiant soprano who phrased her soaring lines with moving eloquence.

Andrew Clark

INTERNATIONAL TODAY'S EVENTS

AMSTERDAM

Concertgebouw Grote Zaal 20.15 Kyung-Wha Chung and Stephen Bishop-Kovacevich play Beethoven violin sonatas. Tomorrow: Elgar's The Kingdom. Thurs and Fri: Chailly conducts Royal Concertgebouw Orchestra (6718

Concertgebouw Kleine Zaai 20.15 Song recital by Felicity Lott accompanied by Graham Johnson (6718 345) Muziekiheater 20.00 Hartmut Haenchen conducts Johannes Schaaf's production of Die Fledermaus, also Thurs and Sat

BARCELONA

(6255 455)

Gran Teatre del Liceu 21.00 Double-bill of Donizetti's II campanello and Leoncavallo's I Pagliacci, with cast led by Giuseppe Giacomini and Piero Cappuccilli, also Thurs. Sat and Sun: Romano Gandolfi conducts Schubert concert (412 1466)

■ BERLIN

Staatsoper unter den Linden 19.00

Fabio Luisi conducts il barbiere di Siviglia. Tomorrow: Swan Lake. Thurs: Zar und Zimmermann. Fri: Rosenkavalier. Sat: Madama Butterfly. Sun: Giselle (2004 762) Deutsche Oper 20.00 Jiri Kout conducts Gunter Kramer's production of Katya Kabanova with Karan Armstrong in title role, also Thurs. Fri: Trovatore. Sat: Zauberflöte. Sun: Tosca (3410 249) 20.00 Murray Perahia plays Mozart piano concertos with Berlin Philharmonic Orchestra. Tomorrow: Ensemble Oriol plays Haydn, Shostakovich and Mendelssohn. Thurs to Sun: Dennis Russeli Davies conducts BPO (2614 383)

■ BONN

Oper 20.00 Vaclay Neumann conducts The Bartered Bride with a cast led by Gosta Winbergh, Helmut Berger-Tuna and Graham Clark, also Thurs and Sat. Tomorrow: Julien Sorel, ballet by Youri Vamos with music by Elgar

■ BRUSSELS

Palais des Beaux Arts 20.00 Christopher Warren-Green conducts London Chamber Orchestra in concertos by Vivaidi and Bach. Thurs: Jose van Dam sings Mozart and Mahler. Fri: Alexander Rahbari conducts Glinka, Rachmaninov and Prokofiev

BUDAPEST

State Opera 19.00 Anna Bolena, also Thurs. Tomorrow: Manon escaut. Fri: Bank Ban. Sat and Sun: Salome

Erkel Theater 19.00 Aida, also Sat. Tomorrow: Rigoletto, Thurs: Pest Concert Hall 19.30 Howard Williams conducts Pecs Symphony Orchestra. Thurs: Adam Medveczky conducts Hungarian Symphony Orchestra in music by Haydn and Schubert, Fri at the Academy of Music: Ilona Prunyi gives a Beethoven piano recital and Julia Hamari sings Mozart with the Budapest Strings. Sun: recital by Brigitte Fassbaender Tickets available from central theatre booking office. Andrassy ut 18, and Philharmonic booking office, Vorosmarty ter 1

THE HAGUE

Danstheater 20.15 Four ballets by Elisa Monte Dance Company. Tomorrow till Sun: Netherlands Dans Theater triple bill (360 4930)

■ COLOGNE MUSIC

Philharmonie 20.00 Alf-Mozart programme with Cologne Chamber Orchestra, also tomorrow (2801) Operaheus 19.30 The Bartered Bride with cast led by Beatrice Niehoff and Josef Protschka, also Sat. Tomorrow: L'Elisir d'Amore. Fri: Tanz-Forum production of Romeo and Juliet. Sun: Götterdämmerung (221 8400) THEATRE

This week's repertory includes Goethe's Stella directed by Gunter Kramer, Brecht's Jungle of Cities and Brendan Behan's The Hostage

HAMBURG

Staatsoper This week's repertory

is devoted to ballet, with guest performances by the Bolshoi Ballet and a performance of A Midsummer Night's Dream with soloists from the Royal Bailet, Stockholm (351555)

■ LONDON MUSIC

Coliseum 19.00 Jerzy Maksymiuk conducts Jonathan Miller's production of Don Giovanni, with Peter Coleman-Wright in title role, Jane Eaglen as Donna Anna, also Thurs and Sat. Tomorrow and Fri: Tim Albery's new production of Peter Grimes with Philip Langridge in title role (836 3161) Royal Festival Hall 19.30 Vladimir Ashkenazy conducts Royal Philharmonic Orchestra in Tcherepnin's Magna Mater, Roslavets' Violin Concerto and Prokoflev's Alexander Nevsky, Fri: Andrew Davis conducts BBCSO.

with LPO (928 8800) Queen Elizabeth Hali 19.45 Rossini's Petite Messe Solonelle with National Westminster Choir and soloists including Valerie Masterson, Tomorrow: Hanover Band (928 8800) THEATRE

Sun: Zubin Mehta conducts Strauss

This week's shows include Carmen Jones, Simon Callow's lavish period revival of the Oscar Hammerstein musical based on Bizet's opera (Old Vic), Michael Bogdanov's English Shakespeare Company productions of Corlolanus and The Winter's Tale (Aldwych), The Visit, Théâtre de Complicité's stylish production of Durrenmatt's dark comedy (National), Matador, new musical telling rags-to-riches tale of Spain's legendary Et Cordobes, starring Stefanie Powers (Queren's) and Pinter's The Homecoming, with a cast led by Warren Mitchell (Comedy). Phone Theatreline: Plays 0836 430959 Musicals 0836 430960 Comedies 0836 430961 Thrillers 0836 430962

■ NEW YORK MUSIC

Avery Fisher Hall 19.30 Gluseope Sinopoli conducts New York Philharmonic Orchestra in Mahler's Ninth Symphony. Thurs, Fri and Mendelssohn and Respighi. Tomorrow in Alice Tully Hall: recital by Nadja Salerno-Sonnenberg and Cecils Licad (874 2424) DANCÈ

Metropolitan Opera 20.00 American Ballet Theatre's new production of Coppélia choreographed by Enrique Martinez. Season runs till June 22, with performances every day this week except Sun

This week's shows include Other People's Money, Jerry Stemer's expertly crafted play about the efforts of a New England community to protect itself against an unscrupulous Wall Street takeover specialist (Minetta Lane), Haunted Host, Robert Patrick's play about a Greenwich Village writer who is haunted by the memory of his young protege and confronted by the dead man's double (Actors Playhouse), I Hate Hamlet, Paul Rudnick's comedy about a young television star who is cast in the title role of a Shakespeare-in-the-Park production (Walter Kerr) and Gypsy, award-winning production

of the musical with lyrics by Stephen Sondheim and the original choreography by Jerome Robbins (Marquis). Ticketron (246 0102) answers inquiries and sells tickets

PARIS

Opéra Comique 19.30 Final performance of La fee Urgele, 18th century musical entertainment with words by Charles Favart and music by Duni (4286 8883) Théâtre de la Ville 18.30 Une Journee Blanche, new ballet choreographed and danced by Carlotta Ikeda and Herve Diasnas, music by Alain Mahe, also tomorrow. Fri and Sat: La Beaute des Fleurs, choreographed by Pierre Doussaint and Isabelle Dubouloz (4274 2277)

■ VIENNA

Staatsoper 19,00 Gerd Albrecht conducts new production of Schreker's Der ferne Klang, also Thurs and Sun. Tomorrow and Sat: Abbado conducts Khovanshchina (51444 2960) Musikverein 19.30 Vienna Virtuosi play Mozart's Clarinet Concerto and HK Gruber's new cello concerto, Fri: Jean-Claude Casadesus conducts Orchestre

National de Lille. Sat and Sun at

11.00: Horst Stein conducts Vienna

■ WASHINGTON

Philharmonic, (505 8190)

Kennedy Center Concert Hall 19.00 Metislav Rostropovich conducts National Symphony Orchestra in Prokoflev programme. Thurs and Sat: Yan Pascel Torteller conducts
Ravel and Berlioz (467 4600)

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FINANCIAL TIMES

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Tuesday April 23 1991

The price of **British** gas

ONE OF the most important moments so far in the short history of regulating Britain's privatised but still over-mighty utilities is almost upon us. British Gas is in the final stages of negotiations with its regulator, the Office of Gas Supply, to determine the formula which will set the prices paid by 17m domestic gas customers from April 1992.

The Ofgas review of domestic prices began in June of last year and has been a wide-rang-ing affair. It needs to be; last year, gas prices went up twice - by 7.5 per cent in March and by between 3.3 and 3.7 per cent

November. These increases were justiriese increases were justified under the current formula, which links the price of gas to the retail price index, minus "x", plus "y", where "x" is a 2 per cent efficiency factor and "y" is the cost to British Gas itself of obtaining raw fuel. It is to be hoped that Ofgas, with the help of two external accountants, is taking a robustly sceptical view of both

the "x" and "y" factors. Although the British Gas publicity machine has been active in recent months in presenting the results of its own customer surveys, there remains a suspi-cion that this private sector near-monopoly still needs to shed more than a few pounds in weight. It has not, to take just one example, been driving particularly hard bargains on the pay front.

Searching inquiry

As for the cost of British Gas's raw materials, there are also good grounds for searching inquiry. The company's dominance of the retail market does not necessarily give it the strongest possible incentive to obtain the lowest cost supplies and there is, at the very least, room to question British Gas's efficiency as an operator of its own gas fields. At the point of privatisation, it was impossible r any outsider to unscramble British Gas's accounts to make a fair judgment on these points. Ofgas will have let down gas customers very badly if it has failed to sort out the

Ofgas has also served notice that it intends to reconsider the appropriate return for Brit-ish Gas, the value of its assets and new ways in which it can

ANYONE seeking a lesson in

the most productive ways to manage workers would be

unlikely to look first to Britain.

Failure to engage the skills

and commitment of workers

effectively has been a long-

standing problem for industry

In the 1970s, the symptom of

this British disease was indus-

trial action. In the 1990s, it is

unemployment caused by

inability to contain wage

Mr Michael Howard, the

employment secretary, none-theless believes Britain has a

story to tell. He yesterday

praised companies for promoting employee involvement. Instead of following rigid Euro-

mission. He suggested that the

Council of Minsters accepts a

vaguely worded endorsement

of worker participation in place of the Commission's draft

directive on European works councils. This would avoid

large employers having to

Part of Mr Howard's motive

establish European consulta-

was no doubt political. The

government has played on its resistance to what it regards as

the Commission's plan to

smother the Single European

Market in the red tape of the

social action programme. Mr

John Major has less taste for

such public carping than Mrs Thatcher, but Mr Howard

believes he is on firm ground.

of British employers to the draft directive.

Overblown rhetoric

tion mechanisms.

worker involvement.

growth.

Listening to

be held accountable for stan-

The next stage of this lengthy process, due in the next week, is that British Cas has to inform Ofgas whether it accepts the regulator's proposed pricing formula. If it does not, the matter is automatically referred to the Monopolles an Mergers Commission for detailed examina-

MMC involvement

There is a very strong case for MMC involvement, not least because it would expose to public scrutiny the detail of Ofgas's case and British Gas's response. One of the biggest problems caused by the misudged privatisation of British Gas, which was allowed to keep most of its monopoly power, is that the kind of public disclosure which was to some extent required of a nationalised industry can now be resisted on grounds of com-mercial confidentiality.

As the rules stand, however, British Gas can avoid a bruis-ing run-in with the MMC siming run-in with the mant sim-ply by agreeing to the Ofgas plan. It is to be hoped, in that event, that one element in the Ofgas proposal is that there should be full public exposure of its analysis. There is no point in Ofgree cetting itself up. point in Ofgas setting itself up as a policeman of the meter man's punctuality if its essential calculations about prices are lost in obscurity.

Nor should the politicians who designed the regulatory regime in gas make the mistake of thinking that these are matters of little interest to voters. Energy prices are uncon-troversial so long as they are relatively stable. But the new gas price formula will cover the period from 1992 to 1997. It will only take a modest oil and gas price shock in that period to turn the arcane algebra of Ofgas into front page news.

Regulating a company as powerful as British Gas is not easy, and so far Ofgas has had only modest success in stimu-lating competition in the industrial gas market. For domestic customers, Ofgas looks like remaining the only protection against the abuse of monopoly power. That is why its next move on prices needs to be rigorous and visibly so.

Most of today's debate revolves around the entirely valid objective of increasing managerial effectiveness and corporate

Mr Howard could do more to catch this mood. For example a code of practice on employee involvement has already been drawn up by the Institute of Personnel Management and pean practice, companies were finding their own ways of raisthe Involvement and Participa-tion Association. Mr Howard ing productivity through Mr Howard's point is that should consider endorsing it. British companies are already addressing this tricky issue But such signals of encour agement to employee involvewithout having to be forced to do so by the European Com-

ment are the limit of what governments should Legislation is not the right way to define or enforce good man-agement practice. This is as true of employee communica-tion as it is of the structure of company boards or the plan-ning of a production line. Inflexible models of how managers should inform workers will not increase good commu

intent at the European level is, in any case, clearly outdated. Not only European govern-ments, but US management consultants now preach the virtues of involving employees in production systems and quality control; wise manage-ments keep workers informed and listen to what they say. Japanese team-working meth-ods and quality circles are among the clearest pieces of evidence that worker involvement can bring a financial pay-

The political motivation accounts for some of the overblown rhetoric. Companies employing more than 1,000 people and more than 100 in at least two EC countries would no doubt find it irritating to have to pay for regular pan-European briefing meetings. Many might question their value, but the directive would

hardly force them into full-blown co-determination. One reason why the fears appear exaggerated is the long

emplovees history of the directive. It is a descendant of more ambitious attempts to impose worker participation, including the Vredeling directive of 1980. But its roots are misleading: the European Commission no longer sees itself applying the German model across the Community.

Code of practice

Much of this legislative

The market is thus already deciding in favour of involve ment. Changes in working methods to suit more complex production processes are already making it more diffi-cult to sustain a clear divide between managers and the managed. This is something for governments to encourage if they want to achieve economic success. It cannot be imposed through inflexible legislation. no matter how well inten-

Three sleek new airliners, their fresh paint glinting in the spring Californian sunshine, sit on the "flight ramp" - the very end of the produc-tion line at McDonnell Douglas's Long Beach plant - surrounded by a clutter of equipment as workers prepare the jets for final delivery.

They are among the first dozen production models of a wide-bodied, three engined jet — the MD-11 — to roll off the commercial aircraft line. To McDonnell Douglas, these jets, and 34 other MD-11s due for delivery this year, represent much more than routine aircraft sales. To the management at Long Beach, where McDon-nell makes its civilian aircraft, they provide hope that the chronic prob-lems that have plagued the plant for years are being solved. And at the group's headquarters in St Louis group's headquarters in St Louis, Missouri, the sales are a kind of financial poetry in motion: each departing \$100m jet brings in huge amounts of cash flow which the company believes will extricate it from a tight corner by

the end of this year.

For McDonnell Douglas, the largest defence contractor in the US and one of the western world's three leading civilian aircraft manufacturers, has a stretched balance sheet. In 1990 much more cash — some \$400m — flowed out of the business than came in.

Ironically, just when the company has been basking in the success of its weapons systems in the Gulf war, a succession of blows has left some Pentagon officials and industry observers questioning whether it could even become a contender for bankruptcy or

a government bail-out.

Mr John McDonnell, the company's bearded, 53-year-old chairman and the son of its founder, says the Cassandras are just plain wrong. "We've taken a lot of strong measures to improve cash flow and they are tak-

Even if McDonnell Douglas's finances are now improving, it faces a difficult long-term juggling act

ing effect," he says. "By the end of this year our cash flow will be getting quite positive and our debt will be going down, and it will be obvious to everyone that we're getting in a much stronger financial situation."

But in 1990 the company reported net earnings of only \$306m on reve-nues of \$16bn, while at year-end its debts, excluding its financing arm, totalled \$3bn, or 95 per cent of its equity. Nor is the quality of its earnings very impressive: some \$376m of 1990 profits came from a one-time pensions settlement, while the company is in dispute with the government over military contracts which could eventually mean writing off hundreds of millions of dollars.

The most serious dispute stems

from January's decision by Mr Dick Cheney, the US defence secretary, to cancel development of the A-12 attack aircraft, a potential \$50bn programme being jointly developed by McDonnell Douglas and General Dynamics. The two contractors, having already taken large write-offs on the A-12, are now locked in litigation over \$1.3bn of progress payments which the Penta-

Even if McDonnell's finances are now improving, with a reported profit of \$58m for the three months to March 31 this year, against only \$2m for a year earlier, it faces a difficult long-term juggling act: its combat aircraft business, which for years has made up for the weak financial perfor-mance of the commercial side, is its defence budget.

The Gulf war is unlikely to bring in

much fresh business – apart from a replenishment of the Tomahawk cruise missiles. And while McDonnell

Martin Dickson on the outlook for the US aircraft maker McDonnell Douglas as it tries to recover from a succession of blows

Into the air with a hold full of hopes

remains the leading US manufacturer of combat aircraft, several models the F-15 Bagle, the Harrier II AV-8B and the Apache helicopter - are nearing the end of their Pentagon production programmes.

The successor to the F-15 is to be chosen by the air force possibly this week in a two-way battle between a Northrop-McDonnell partnership and one comprising Lockheed, Boeing and General Dynamics. Worth upwards of \$60bn, the contract for the new, advanced tactical fighter, the ATF, is vitally important to McDonnell-Doug-las. This mouth it lost out to a rival Boeing-Sikorsky consortium for the US army's new light attack helicopter

Whichever way the ATF contest is cided, it is clear that McDonnell's future is becoming more dependent on Long Beach and its ability to develop profitably new generations of civilian aircraft in competition against the larger, more efficient Boe-ing and European Airbus Industrie. Long Beach, in common with rival

Total

manufacturers, has a strong order book - particularly for wide-bodied jets - though in recent months the industry has become nervous because of deferrals and cancellations by air-line customers. But the plant has been an Achilles heel since the Californian Douglas company merged with McDonnell in 1967, losing money for much of the past 15 years

Its profits record might be blamed in part on the competitive pressures of the aerospace industry, but insiders suggest it results substantially from years of poor productivity and lack of discipline. The plant's management did not have a sufficient grasp on real production costs, while suppliers comlained about bureaucracy and inefficiency in the purchasing system.

All these problems were exacer-

bated in the mid-1980s as Long Beach tried to cope not only with making the aircraft it already had in produc-tion - the MD-80 twin-engine jet and the now discontinued DC-10 wide-bodied aircraft - but also with a rush of new developments: there was the MD-11, the successor to the DC-10; the MD-90, a follow-on from the MD-80; the C-17, a new generation of military transport aircraft specially designed for use on short runways; and the T45, a naval training aircraft.

Despite these new ventures, McDon-nell Douglas's family of commercial aircraft is less comprehensive than that of Boeing and the developing Airbus fleet. Unlike its two principal competitors, it has no presence in the middle range of the market, but is concentrated at the lower end, with the MD-80, and at the top with the MD-11. McDonnell and Airbus missed a chance to challenge Boeing two years ago by failing to agree to co-operate on new aircraft production. Now McDonnell is understood to be actively looking for an equity partner to buy a minority stake in the com-

Meanwhile, as the company strug-gled to meet its commercial aircraft commitments and programmes, staff levels were rising. At Long Beach, the workforce went from just 12,000 in

made a lot of money for Tesco shareholders. But the problem

with such seemingly massive

pay increases today is twofold.

They send the wrong sort

of signal to a workforce under

Second, tying management incentive schemes so closely

to earnings-per-share growth
- perhaps at the expense of

be dangerous. It is time companies spelt

out the terms of their execu-

tive incentive schemes in the

annual report right from the

MacLaurin's would not be such

Programme trade

seek stock-market flotation, Sheffield Wednesday, who beat them in Sunday's Rumbelows

League Cup final, might turn to the FT Ordinary index to

appreciate just how long it had been since they last won a Wembley final. It was 1935, the year the

Ordinary was launched. On

Sunday, the index (base 100)

told that the 1935 Wembley

programme cost one old penny Sunday's cost £3 – a 720-fold

stood at 1980.1. We are

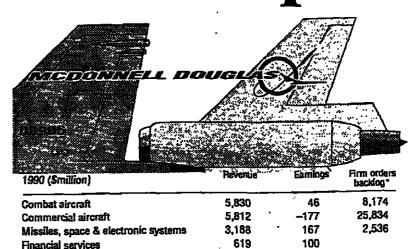
■ While Manchester United

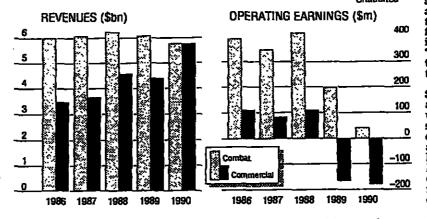
start. Then bonanzas like

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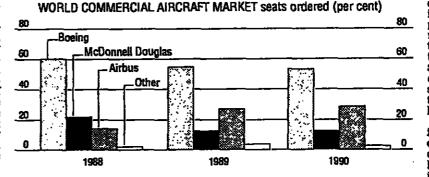




797

49

36,544



1982 to 52,000 in 1989. As it did the experience level of the average worker dropped from 10 years to two. Problems multiplied and the plant's development schedule lagged.
At this point Mr McDonnell, who

became chairman in early 1988. decided that the entire group needed a radical overhaul of its management systems. A new executive team, drawn from across the company, was despatched to Long Beach last year, headed by Mr Bob Hood. The new management approach aims to satisfaction by stripping away burean-cracy, pushing greater powers of deci-sion-making down the line, and creatthrough the formation of teams. Called Total Quality Management System (TQMS), and inspired by the Japanese, it has been adopted by several other leading US manufacturers.
"We started from ground zero,"

recalls Mr Hood. Departments were reshaped into teams working on indi-vidual products, drawing together people from different disciplines. Manement layers were cut from nine to five and the new leaders were selected with an emphasis on what Mr Hood calls their ability to "coach and lismanagement".

Over the longer term, the changes may well prove to be the salvation of ing greater motivation and Long Beach. In the short term, they inter-departmental co-operation produced more confusion, demoralisa-

tion and delays. TQMS was intro-duced gradually and quite success-fully at McDonnell's St Louis division, but was imposed virtually overnight at Long Beach. Matters became so bad that Colonel Kenneth Tollefson, the air force representative overseeing air force representative overseeing the C-17 programme, wrote an article

the C-17 programme, wrote an article in the staff newspaper accusing management of lack of leadership.

Morale at the plant still seems shaky, and union relations delicate, but over the past year progress on the MD-80 and MD-11 lines does suggest that the shake-up is starting to produce better results. For example, productivity on the MD-80 improved by more than 30 per cent in 1990 and is still getting better. For the first time in its history that aircraft has enjoyed two consecutive money-making quar-ters, with a third coming up.

All this has not saved the MD-11

from some recent embarrassing criti-cism from Mr Robert Crandall, the chairman of American Airlines, who was unhappy with the first aircraft delivered to his company. Mr Cran-dall's complaints seem to involve some easily fixable and relatively minor glitches, and American says the problems do not alter its enthusiasm for the MD-11.

A far larger Long Beach dispute, which could have a significant impact on the group's profits and balance sheet, concerns the C-17, which is behind schedule and looks likely to come in over the \$6.6bn fixed-price contract McDonnell Douglas accepted from the air force. The air force, claiming that McDonnell is \$500m above the ceiling, withheld progress payments late last year and Pentagon officials were recently quoted as saying that the project might now be \$300m to \$900m over budget.
McDonnell, however, reckons the

aircraft will come in only \$100m above the ceiling. Mr Herb Lanese the company's senior vice-president, finance, says the two sides are working on new figures and insists that "the performance indicators at this time are a lot closer to our numbers

than to the air force's".

The Pentagon's withholding of \$900m last year for work on the C-17 and the cancelled A-12 has contributed significantly to McDonnell's cash squeeze, as has the tightness of the capital markets, restricting cheap access to funds for a company with a low investment-grade credit rating. But the main factor has been the \$3bn cost of developing the MD-11 - roughly the same as the group's entire equity base. However, Mr Lanese says the finan-

cial picture is on the point of improving substantially and that March probably saw the peak of the compa-ny's borrowing needs. At the end of the first quarter McDonnell's debt totalled about \$3.3bn, with some \$370m of cash on hand, against net equity of \$3.5bn. With loan covenants setting a ceiling of just over \$4bn on total borrowings, the company still has a sizeable ability to raise funds. The improving cash position is due in part to MD-11 sales but also to a

company-wide savings drive: working capital is being slashed, the dividend has been reduced and capital spending curtailed. The MD-11 production schedule has also been cut - by five aircraft this year, from 42 to 37, helping save on parts and labour costs.

All this does suggest that the direct predictions are overdone. That said, McDonnell's room for manoeuvre will remain tight for the rest of this year, and there are several wild cards - a \$500m tax claim, the C-17 and labour issues - which could yet cause it 🛊 severe headaches

Next year cash flow is likely to turn positive, but the heat will still be on McDonnell's management: to improve Long Beach productivity; to find jet - a stretched version of the MD-11 called the MD-12X which will compete with the Boeing 747-400; and to handle the tricky transfer of resources from fighter to commercial aircraft.

Top of the bill

■ Forget the opening of Miss Saigon on Broadway. It will be thoroughly upstaged by this year's biggest first night on October 12, bringing the first performance of John Godber's comedy *Happy Families* at the Caxton Theatre in Grimsby... the Questor's in Ealing... the Progress, Reading... not to mention 47 more.

The whole lot are building their autumn season of amateur theatricals around the play, thanks to what used to be called British Telecom which has extended its arts sponsorship into the cut-throat world of amateur dramatics.

Sponsors usually avoid amateurs like the plague. But when consultant James Cook proposed the commissioning of a new play for simultaneous performances by the 64-strong Little Theatre Guild, BT saw the PR possibilities. The idea has been taken up

by 50 members of the guild, which represents the top league of Britain's 12,000 theat-rical groups. In July all the directors involved will gather at the BT Training Centre to be guided by Godber, who has written Happy Families with amateurs in mind - a cast of a dozen, heavily weighted

towards women. The event will cost BT around £50,000, and be repeated in two years time, perhaps with Alan Ayckbourn as the playwright in charge. The sponsor will use the first nights for entertaining customers. You have been warned.

Wrong signal ■ There is an awful lot of humbug talked about top executives' pay. Even so the news that Sir Ian MacLaurin, Tesco's retailing superstar, is taking home £1.5m is bound to raise eyebrows. He is not in the same league

as Sir Ralph Halpern, Burton's

ex-chief executive, and he has

Nipped in bud ■ After excellent vintages for three years running, Bordeaux faces a black year in 1991 as a result of a sharp bout of frost over the weekend In itself, frost is not all that unusual at this time of year. But the attack last Saturday night fell in parts as low as

in consequence, the total Bordeaux vintage this year

- 7 deg C, and it followed a

particularly mild spell which

had brought on the vegetation of the vines unexpectedly



Norman feels there should be a Queen's Award for imports."

is already expected to drop by around half, from 800m to 400m bottles. Moreover, not merely will the quantity be down, the quality will also be

Some vineyards will be much worse hit than the average; the harvest in Medoc may be down by 70 per cent, and the vintage in some individual vineyards in St Emilion, Graves, Entre-Deux-Mers and Pomerol may be completely wiped out.

Wine experts, who last year were groping for superlatives cribe the recent run of superb vintages, are now groping for comparisons for an equally disastrous frost.

Hard tug

One person who won't be at today's annual general meet ing of National Westminster Bank – although he probably should be – is John Tugwell who has been handed the unhappy job of sorting out Nat-West Bancorp. He is the one banker who knows how bad

things really are at NatWest's problematic US subsidiary. Then again, since he arrived in New York less than a fortnight ago and only five days before NatWest Bancorp revealed it lost \$191m in the first quarter, perhaps his

Even by US banking standards NatWest Bancorp has been doing pretty badly, and 50-year-old Tugwell says he has been working day and night since he first arrived. He has rented an apartment on Manhattan's East side and is intent on rallying his 7,500 troops by being NatWest's man in the trouble spot.

Parachuting Tugwell into the top spot at NatWest Bancorp is a risk both for him and his employer. Having been involved in the 1977-78 acquisition of National Bank of North America, he is closely associated with NatWest's expensive acquisition strategy in the US. With interest rates falling there, the injection of yet more of the parent's capital means Tugwell may be able to stage-manage an impressive turnaround.

If he can, then he's well

placed to follow in the foot-steps of Tom Frost, NatWest's chief executive, who made his name in the US. But if matters take a turn for the worse, Tugwell could face a similar fate to Midland Bank's John Harris. Once viewed as the next chief executive, Harris never recovered from being sent to keep an eye on Midland's disastrous Crocker acquisition in California. Unlike Harris, who had to work alongside a US chief executive. Tugwell has been given sole responsibility for Nat-West's US operations. It is

make or break time all round.

Concentrated

After two Finns had been drinking together for three days, one suggested it was time they had something to eat. "Look", said the other, "did we come here to drink

YOUR VERY OWN **MOTORWAY...**



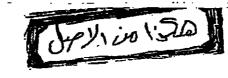
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poland's first democrati-cally elected president, Mr Lech Walesa, arrives

in London today for a three-day state visit. He is a complex mixture of intuitive vision.

political shrewdness, religious

conviction, unexpected naivety - and personal charm. It is a combination which helped him

play a key role in the collapse of communism, and is now

being used to win Poland a

place in Europe and woo for-

Last week in Warsaw he

talked to FT correspondents

about Poland's hopes and fears, starting with the pros-pect of 2m unemployed before

Q: Will you have to ask Poles for "blood, sweat and tears"?

A: I don't agree with this per-spective. Poland can't afford

unemployment. It has so much

work to do, so many needs. Our problem is not over-pro-duction but shortages. We have an educated society but

antiquated systems and

machines. That's why we need

help from abroad. Even if Poland had twice as many peo-

ple we could not catch up with the west in 20 years. So let

foreign business come here, then there won't be unemploy-

ment and I can save the coun-

Are you saying there won't be

unemployment? No, no. There could be more

than 2m unemployed. The point is there should not be

any, given the size of our

What will you be seeking in

talking. Europe is not Europe without Britain, but there are

mistakes in western thinking.

Europe fears that we'll take away markets. But I'm con-

vinced there is work for all

our potential on a Europe-wide scale. Look at Nowa Huta (a

big steel works). Its pollution is

destroying Krakow. Shouldn't we give up producing steel and

buy from France which has

their jobs.
We allow imports of all

goods but the west is not buy-

ing ours. Why are we being punished? We could end up

ike Romania which has noth-

eign investment.

the year is out.

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Visionary seeks an equal chance

Lech Walesa, the Polish president, who begins a state visit to Britain today, outlines his hopes for his country's future in an interview with FT writers

I'll be on a hicycle, others on tractors, some in cars. Who wins is his affair. That's the thinking we should have – everyone should have an equal

Computers should have a hand in all this. The computer should fire a public starting signal. It should not be a confidential one so that someone gets an unfair lead. That places a .ot of faith in

That's true. But the first fruit is always full of worms. What do European leaders say when you make these points to

No one has countered my arguments yet. They may complain that the way I put my views is too brutal but no one has found convincing counter-argu-ments to my vision of European development. Do you see these leaders as short-sighted?

Britain?
I'll be doing some blunt No, but things are changing so fast, and they can't take all factors into account. I have a arctors into account. I have a great advantage. I'm not tied to any party. Politicians as a rule are limited by their political affiliations and programmes. It is said you model yourself on Pilsudski. (Marshal Jozef Pilsudski, who gained enorhere in Poland for 10 years just to fill in the gaps in our econ-omy. We should learn to assess mous popularity by defeating the Red Army at the gates of Warsaw in 1920 and later established an increasingly authoritarian regime in the inter-war years.) Is that right? No. Of course, I respect Pilsud-ski. But I'm a different person. non-polluting factories? But then France has to help find work for the 60,000 who lose Look at the contrast in our achievements. Pilsudski won great victories with enormous losses and people were very enthusiastic. We have achieved an enormous victory over com-munism without bloodshed –

but people aren't happy.
We've achieved so much and
so subtly. We've handed ing but shortages. If we don't find a common language my farmers won't allow the import Europe victory on a plate, and the opportunity to link all Europe up on a healthy basis. Yet just look what Europe is of food from the west. But this is not what should be happening. We want to join the Eurodoing. (At this point the presi-dent screws up his face in a gesture of fastidiousness and pean institutions. But Europe is afraid to let us in. Yet, it's so waves his hands from side to simple. We should all stand at side.) It does not want to get the starting line as if in a race.



Lech Walesa: "My role is forcing people into democracy"

want their freedom. They are

casting aside their chains. Take the Czechs and Slovaks.

Now they're arguing. But this is just the initial phase. After that they'll start coming together again. Modern economies transcend national

boundaries and dangers like

Chernobyl are also no respecter of borders.

Five years ago I said that the

Soviet Union had only one option – to dissolve itself. But

no one took me seriously. I'm

now saying that it will dissolve

but come together again on

new principles, on logical prin-

As for Poland, we need for-

eign investment because it also

gives us security. Having a

Frenchman or an Englishman here with his factory is like

having a division of troops.

You in the west have over-pro-

duction. You can make money

out of our shortages and our

stupidity – and we have plenty of that.

We can't just escape in your

involved ... it hums and haws. Generations have fought for this great chance. Well, now we have it. The question is, Will we screw it up? Everything ought to be pos-

sible - entry into Nato, into the European Community, everything. But what are we doing? Just waiting for the next earthquake. It's amazing. If there'd been the usual vic

tory with corpses all over the place there would have been Somehow everything has changed. It used to be the Germans who did the fighting and

the Jews the trading. Now it's the Germans who are fighting for peace, the Jews who are fighting and the Poles who are trading. Maybe that's why things are upside down, everybody is playing unfamiliar What about the situation to

This is a new era. Of course, new nations and social groups

received our education under communism. We need western help to show us how to do things. We don't want charity or sentiment. We have to be taught in the brutal school of life. The quicker we start the quicker we'll learn. You won power because the communists could not deliver economically. But aren't things getting worse for many? If I was to run for election now I'd get 90 per cent. The new government (led by the prime minister Mr Jan Bieleckt) is full of competent people. True, they are from the third division. They're not well-known. But that's how I wanted it. They want to join the first division and they'll work hard to get there. You know how the

> not. I raise issues. People don't always understand my motives. But the president must always have answers and propose his own solutions he can't allow himself to be taken by surprise. I'm not taking a conventional approach and you should be careful how

first division acts. They sit there smoking their pipes and

thinking about things. That's OK in other conditions but not

now. Fm a man who gets down to

resolving problems. I don't ask whether it's the done way or

direction because it is already full up. I want to turn round the escape routes. That's

you assess what I am doing. My role is a fluid one, searching for solutions and forcing people into democracy Let parliament get angry. Let them rebel. I want to force people to think. I want to provoke them out of the theories of

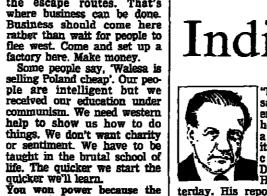
After 50 years of communism you cannot just impose a better system on people. The thing is to provoke them and point them in the right direction. But if there was a threat (to democracy) and events go in a wrong direction then something decisive would have to be done.

we won't get to democracy with an apathetic society. People have been fooled by politicians in the past and have to understand what's going on. That's why I provoke them into arguing and thinking. I don't want them sitting on don't want them sitting on sofas smoking pipes. That's for 50 years' time.

Interview by Anthony Robinson, Martin Wolf and Christopher Bobinski

Joe Rogaly

India's rough passage



sacre villagheadline over a short news item from my colleague D a v i d Housego yesterday. His report, detailing

the actions of Indian security forces in Kashmir, came as a salutary reminder of the internecine strife, government indecision and financial crises that threaten the world's most populous democracy. We who watch from afar have naturally been transfixed by events in the Gulf and the slow disintegration of the Soviet Union; meanwhile the outlook for India becomes more uncertain. Kashmir, the only one of India's 25 states with a Moslem

majority, is being held within the republic by military force. In the Punjab a Sikh uprising by proponents of an independent "Khalistan" – note how like Kurdistan it sounds – appears to be continuing. This appears to be comming. This is complicated by divisions among the Sikhs themselves. Militancy has been met with brutality. The slaughter of innocents by terrorists is evident. Yet the grievances endure; the ideal of Khalistan will persist even if modified by will persist even if modified by events. There is also a continuing undercurrent of revolt in Assam, in the north-east, while in the enchanting southern state of Tamil Nadu the Tamil Tigers take their recreation leave from fighting in Sri Lanka by imposing their own will on parts of their home ground. Clearly the peaceful democracy so well espoused in London salons by the late Mr Lawsharlal Nehrn is not work.

ing as well as it should.

This is hardly surprising.
The US has cohesion because its original settlers, who were overwhelmingly from the Brit-ish isles or German-speaking parts of Europe, created a melting-pot into which later arrivals have to be poured. It works, if imperfectly. But imagine a federated Europe, stretching from the Atlantic to the Urals and Stockholm to Naples, in which the Germans predominated and their language and that of a departed army of Hindi-speaking conquerors were the two official media of government and business. In the long run it would not work.

Jawaharlal Nehru is not work-

Perhaps what we are seeing

in India today is the beginning of the end of the long run. There was no Indian state before the British created its political boundaries. The leg-acy of the Raj was picked up by an educated elite wedded to the notion of a socialist, secular, permanently unified state. The older members of this elite still retain England - its language, history and culture in their heads; their children less so. The more ambitious among the governing classes still entertain visions of India's grandeur as the leader of the nonaligned nations, a senior player upon the world state, even a nuclear power.

Reality is eating away at the ideas of Mr Nehru and the founding fathers. Socialism is increasingly out of fashion in most parts of the world, perhaps puzzlingly so to some Indians. (There are two communist parties, which together have 56 seats in the country's 524-member lower house of

Reality is eating away at the ideas of Nehru and the founding fathers

narliament.) Yet for the election due next month Mr Rajiv Gandhi, inheritor of the leader-ship of the founding Congress party, is fighting on a mani-festo that promises both a programme of privatisation and a cut in government spending.
It is hard to maintain the secular ideal. The revivalist

Bharatiya Janata Party, BJP, trades upon the paradoxical feelings among Hindus that although they are the overwhelming majority they are somehow threatened by Mos-lems. Sikhs, and other minori-ties. This reaches deep into the psyche of many Hindus. Indian acquaintances of wide erudition and a cosmopolitan mien have confided to me that they see a point in BJP's proposal to construct a Hindu temple on a site claimed by Moslems. Mr Gandhi needs Moslem votes and cannot play the Hindu card, but he has offered a compromise on job reservation for lower castes, offering to sup-port a scheme without giving

As to national unity and international status, postwar Indian foreign policy has been firmly based on cementing a special relationship with the Soviet Union. But now we live in a one-superpower world, and any outside acquiescence in bloody attempts to repress secessionist movements will depend upon the US. There is not much point in being nonsligned if there is no balance of power within which not to align yourself. During the Gulf war India managed to offend almost every party - its old friends, the Iraqis, by doing nothing, and its potential business partners, the Americans, by cutting off overflying rights to refuel at Bombay.

It will be difficult to mend such broken fences until the election produces a new government, probably a coalition, possibly led by Mr Gandhi. The first step, however, will be to produce a budget, postponed for electoral reasons, and the step after that will be to sit down with India's creditors. This is where outsiders, like the IMF and the World Bank, have some leverage. They will not provide cash without strings. But how far should conditionality go?

It is in everyone's interest to strengthen Indian democracy, and – as the Gulf war and its aftermath show – it is the prevailing fashion to maintain existing boundaries however colonialist their origins. But Indians are independent-minded people. They need not follow fashion. They would be wise at least to loosen their tight republic and replace it with a true federation, or, bet-ter, confederation - in short, to decentralise administration outwards and far away from

The new government should state its intentions about economic liberalisation, and clear its mind about whether it welcomes inward investment or seeks to drive it away by the sheer weight of obstructive bureaucracy. I have anecdotal evidence about an Indian mega-millionaire who made his money in the US and wanted to invest \$250m back home but withdrew after three months of frustrated attempts to meet the demands of the Indian civil service. There is a huge wealth of talent and drive among India's 850m people. They need to shed the remaining burden of the Raj, even take the risk that in the end some of them go their separate ways, if they are to realise their potential.

*The case for an international adviser

From Mr Brian Reading.
Sir, Your leader ("The new consensus", April 20) spots the irony in the appointment on the same day last week of Sir Terence Burns' promotion from chief economic adviser to permanent secretary to the Treasury, with news of a record rise in unemployment and an accelerating fall in industrial production. Later you support the need for some sort of National Economic Assessment – while your Job in the News article below the leader sought a bright, pragmatic economist for Sir Terence's old job. Following the failures in economic management in the 1980s, perhaps you should have gone further.

Letting up on house pressure

From D.B. Robb. Sir, Your editorial (Housing and inflation, April 16) suggests that lowering the value of housing would help to curb inflation. The only sound long-term way of reducing price pressure on housing is to increase supply, and that would naturally follow a full revival of the letting sector. Sadly, that can happen only when all political parties are in agreement, since too many fingers have been burnt for land-

ords to enter the letting market with confidence. In the meantime you can hold back house price inflation with high interest rates in the same way as a dam holds back water - the pent-up demand is still there, and will manifest itself when it is able to.

D.B. Robb. Durley Gate, Savernake. Marlborough, Wilts.

Fiscal policy is now on auto-pilot and monetary policy is dictated by exchange rate con-siderations. British economic prospects depend largely on what is happening to the rest of the world. The Treasury no longer uses macro-economic forecasts to steer the economy. Nor does it produce reliable forecasts for others. This job, and the National Assessment, should be handed over to independent well-financed eco-

nomic research institutes.
The Treasury's forecasting errors for the British economy are well known. But it is possi-bly worse at predicting inter-national economic prospects on which our future now rests. The 1990 budget forecasts, for

example, predicted that the US current account deficit and the Japanese surplus would increase while the large German surplus, despite unifica-tion, would remain broadly unchanged.

This suggests that Sir Ter-ence's old post, as chief eco-nomic adviser, might also be abolished. Instead, the government should appoint an inter-national economic adviser, so as to be better informed on what is going on in the rest of the world. Moreover, in looking for candidates, it should consider an American, German, French or even a Japanese. Brian Reading, 83 Shakespeare Tower,

Interim solution for Treuhand

From Mr Derek Mortimer.
Sir, Your article "So much to do, so little time" (April 9) mirrors precisely the fundamental problem of managing change. David Goodhart's report on the Treuhand's fear that lack of appropriate management resource could lead to wastage of money on a massive scale echoes the gap being experi-enced by many more developed commercial and industrial organisations. Their recourse has been to interim manage-ment.

For a long time the concept of short-term executives has been one of a stop-gap solution. That this is no longer the case is a tribute to the high-level experienced people from all over Europe who are prepared to roll up their sleeves, tackle a specific assignment, achieve significant results and move on to the next project, adding value through their business skills, motivation, and lack of emotional excess baggage.

If the Treuhand wishes to attract the type of manager who will enjoy the challenge of participation in the resurrec-tion of a market economy, the interim management route is an obvious solution. managing partner, Triple A, 18, Lawrence Avenue, New Malden, Surrey

Banking on no surprises

From Mr Graham Watson. Sir, You have pointed out that the European Bank for Reconstruction and Develop-ment is the only institution of its kind which is based in Lon-

With all the sniping that has attended its establishment, perhaps this is hardly surprising. Graham Watson, 3 Haslemere Road, SE5

Offering support to the ailing company

From P H Numeriey. Sir, As you would expect I totally disagree with the letter from Jeremy Parker (April 15) suggesting the clearing banks were often too tardy in helping ailing companies. We currently have some

400,000 small business customers on our books and are deeply committed to ensuring that our customers' well-being is a top priority – it has to be in order to guarantee our own future as a viable company.

Mr Parker chides us for not using our "early warning systems" to detect the first signs of decline in the quality of security. In many respects we are largely in the hands of the companies themselves - in a recession the most ominous sign to a good bank manager can be the total lack of contact

with a business customer. As one of my branch managers in central London put it recently: "It's when I don't hear from customers that I

start to worry." That said. there are many forms of assistance we can and do give and we constantly remind customers to come to their bank

manager at the first signs of problems. Peremptory calling in of borrowing may only lose the bank both its investment and its customers. P H Nunnerley. assistant general Manager, Lloyds Bank, Canons House, Canons Way, Bristol

Pensions below 60 still a matter of discretion

From Mr Paul Greenwood. Sir, Richard Waters' article on pensions in the Finance Bill ("Revenue paves way for curbs", April 18) gives a strong inference that pension ages below 60 are no longer allowed in any circumstance.

The change in clause 33 of

the Finance Bill amending allowable retirement ages applies only to schemes approved by the Inland Revenue under mandatory approval.

Few occupational schemes are approved under this route. The vast majority, probably more than 99 per cent, are approved under Revenue dis-cretionary approval. The clauses on discretionary approval give the Inland Revenue very wide powers. For instance, in some circumstances for certain occupa-tions, footballers and deep sea divers for example, they have approved pension schemes with normal pension ages considerably below those allowed under mandatory approval. There is nothing in the

Finance Bill which changes or restricts such practice.

The Inland Revenue is believed to be currently reviewing its discretionary practices. An announcement is now expected in September in the form of the issue of new inland Revenue Practice Notes. These notes summarise how it exercises its discretion granted to its under the legislation. It could well be that for ordinary schemes under its discretionary powers the Inland Revenue restricts pension ages to the band from age 60 to 75, irre-spective of sex.

However, until the issue of new Practice Notes or some other announcement, it is not actually known what the Inland Revenue's attitude with regard to pension ages will be for the vast majority of pension schemes. Paul Greenwood, William. M. Mercer Fraser,

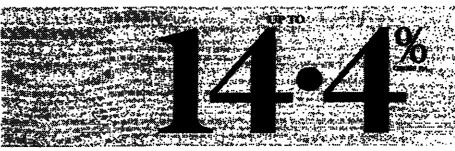
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FINANCIAL TIMES

Tuesday April 23 1991



Treuhand in DM2bn commercial paper issue

THE fledgling German commercial paper market is set to receive a major boost from the east German Treuhand, the state-backed privatisation agency, which is planning a large borrowing programme to finance restructuring investments at the several thousand companies it still owns.

The Treuhand is today expected to announce a commercial paper programme of up to DM2bn (\$1.1bn) arranged by Dresdner Bank, which est programme of its kind since the market began to take

If the issue runs smoothly the Tretthand may well test the market again to cover more of its DM25bn borrowing limit for Some Treuhand officials

have also speculated that the organisation will make use of commercial paper, among other instrume 's, to gradually take over up to DM70bn of the DM100bn in old debts that the

is still theoretically carrying. The Treuhand is already paying interest to the Bundes bank on those old debts and some analysts believe that for simplicity's sake it would be better to centralise the debt

mder one roof. The Bonn Finance Ministry admits that much of the corporate debt will not be repaid but still officially prefers a case by case policy on debt forgiven The commercial paper mar-ket is only available to the

thereby acquire relatively The Trephand can thus exploit its semi-government status to save a bit of money on its extensive borrowing needs. The maturity of the first issue is expected to be one

Commercial paper only became a possibility in Ger-many earlier this year when the Bundesbank withdrew its previous objections, Finance Ministry permission for such and the turnover tax on securities was abolished Since then the biggest issue announced, although not yet completed, was a DM500m programme for Daimler Benz arranged by Deutsche Bank. The Treuhand would not comment yesterday on when, if at all, it intended to tap the commercial paper market

However, Finance Ministry officials in Bonn did confirm that such a move, rumoured for some time, was now immi-

Poll defeat will curb Kohl's ability to govern

JUST AS Chancellor Helmut Kohl's problems over German unity have been manifestly increasing, his capacity to do anything about them has now

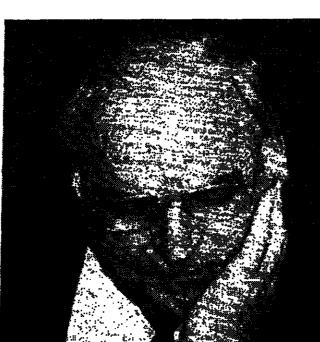
Sunday's crushing defeat for his Christian Democratic Union (CDU) in the state of Rhineland-Palatinate leaves Mr Kohl's party in control in only one of the 10 West German states making up the old Fed-

The loss of the right's majority in the upper house of parliament, the Bundesrat (federal council), which has a veto over all tax legislation, significantly constrains Mr Kohl's ability to

Less than five months after the chancellor gained a sweeping victory in the December 2 all-German general elections, German politics is facing a confused period of confrontation, uncertainty and drift.
The centre-right coalition in

Bonn, made up of the CDU, the Bavarian Christian Social Union (CSU), and the liberal Free Democratic party (FDP), still has a secure majority in the lower house, the Bundestag. But Germany's highly developed system of political checks and balances now deprives Mr Kohl of the necessary means to push through

A large part of his misfortone stems from his lack of foresight last year in failing to present voters with a more accurate picture of the eco-nomic and social challenges caused by German unification. Mr Hans-Werner Meyer, head of Germany's Trade Union Federation (DGB), believes that if Mr Kohl had announced the likelihood of tax rises before the December elections, he



a still higher majority.

As it is, following the large rises in taxes and social security levies decided in February, the Chancellor is now paying a triple price for his foolishness. First – as was widely pre-dicted at the end of his year of victory in 1990 – his personal credibility has taken a nose-

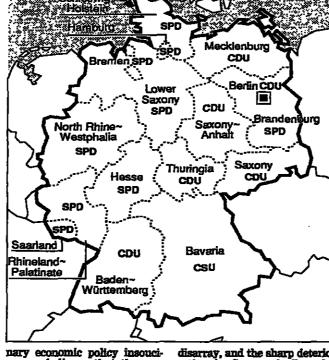
Second, the round of Social recent state polls has resurrected regional coalitions between the SPD and the Greens in Lower Saxony, Hesse and now (probably) Rhineland-Palatinate. This has effectively resurrected at a regional level



Paying the price: Chancellor Helmut Kohl yesterday

the Greens party which is one of Mr Kohl's pet hates and which appeared to be close to extinction after its collapse in the national December elec-

Third, Mr Kohl's misfortunes have prepared the way for a new spate of coalition bicker-ing. The chancellor's slightly hizarre revelation a fortnight ago that Mr Wolfgang Schauble, the wheelchair-bound interior minister, was the most likely man to succeed him has been roundly criticised by Mr Theo Waigel, the finance minister and CSU chairman. Mr Waigel - who shares the blame for last year's extraordi-



ance - believes that the pre-mature start to a leadership debate has damaged the coali-tion's poll standing. Mr Waigel himself has done

his bit towards incurring the wrath of the free-market wing of the FDP by announcing at the end of last week his decision to water down plans for cuts in the next few years in taxes on companies and high-earners. But these would anyway now have been blocked by the SPD majority in the Bundesrat - as well as by the need to trim the swelling budget def-

ration in Germany's financial position, Mr Kohl's main hope is that an international economic recovery later this year come to Germany's rescue

Unfortunately, the foreign exchange markets – where the D-Mark fell yesterday to a 17-month low against the dollar – may upset the prospects. With the Bundesbank signal-ling its desire to press harder on the monetary brakes to bol-ster the D-Mark, Mr Kohl may face before too long, in addi-tion to the recession in east

Germany, a sharp slowdown in

\$ gains strength as D-Mark weakens after state poll By Andrew Fisher in Frankfurt and Rachel Johnson in London

HOPES of economic recovery in the US kept the dollar at a 16-month high yesterday, undermining sterling and further weakening the D-Mark in the political aftermath of the weekend's state election in

Germany.
The Bonn government's defeat in a regional election in the home state of Mr Helmut Kohl, the chancellor, gave the dollar's rise against the German currency a fresh impetus. In Germany and abroad, the vote against the Christian

Palatinate was seen as a further blow for Mr Kohl when the condition of the east Ger-man economy is causing sing concern. The defeat also removes the government's majority in the Bundesrat, the upper house of parliament, which has the power to veto

Meanwhile, confidence in the US economy has been stregthening - with the dollar climbing to a Frankfurt close of DM1.7585, its highest since the end of 1989. It was helped by Democrats in the Rhineland comments by Mr Otmar Issing,

a Bundesbank director, who stated the central bank's polof following a monetary and not an exchange rate goal. Dealers took this to mean the Bundesbank did not intend to intervene heavily to brake the dollar's rise, although it is keen that the German cur-rency should remain strong to help ward off rising inflation.

Central banks have not been intevening to curb the mark's recent falls with concerted dollar sales. This has added to market perceptions that the US authorities are happy to see

the dollar strengthen further, and that the Federal Reserve is content with the current level

As the Bundesbank is thought to be unwilling to stem the mark's fall, the markets are expecting the currency volatility to last at least until agreements about inter-est rates emerge from this week's meeting of the Group of Seven countries in Washing-

German share prices fell back with the currency. On the Frankfurt Stock Exchange, the

DAX index shed 1.7 per cent yesterday to close at 1,571.91. declines on Wall Street and in Tokyo as well as the German election result. In New York afternoon trading, the Dow Jones index was down 39.60 at

There were also sharp falls in the pound and on London's equity market. The FT-SE 100 share index closed down 29.3 at 2,690.8, also affected by early falls on Wall Street.

Polish debt forgiveness criticised by US group

By Stephen Fidler, Euromarkets Correspondent

THE DECISION by the Paris Club of creditor governments to forgive at least half Poland's debt to them is unhelpful for the stability of the interna-tional financial system, the Institute of International Finance, the Washington-based group which promotes the ews of international banks.

views of international banks, said yesterday.

Mr Horst Schulmann, IIF managing director, described the forgiving of Poland's debts as foreign aid through the back door. It would lead other debtor governments to seek similar treatment from the Paris Club, he said, suggesting it would contribute to the breakdown of order in internabreakdown of order in international finance.

He also criticised the pressure on banks to match the Paris Club in granting at least 50 per cent forgiveness to Poland.

This pressure was one of two developments over the last six months - the other being the continued growth of interest arrears owed by developing which were damaging the

WORLDWIDE WEATHER

tries, he said. The IIF calculated that interest arrears owed to banks grew to \$26.8bn at the end of March, from about \$18bn six months

Mr Schulmann said the fact that some countries were allowed to build up arrears while others, particularly in Asia, did not, showed a double standard. Financial institutions should

refuse all new loans to countries in arrears until they have an effective agreement to elim-

inate them.

He called on finance ministers, meeting in Washington later this week for the spring meetings of the International Monetary Fund and World Bank, to address three issues: the global capital shortage, which could not be managed merely by lowering interest rates; growing interest arrears by debtor countries; and the growing "moral hazard" in the international financial system, as epitomised by the Polish debt forgiveness deal.

EC electronics companies ask Brussels for extra protection

By William Dawkins in Paris and David Buchan in Brussels

bled electronics industry inten-sified over the weekend at a crisis meeting between key members of the European Commission and the EC's five main electronics companies.

The industrialists pressed their case for specific support measures going beyond the general plan presented by Brussels last month to channel more EC research money into demand-creating infrastructure projects. The commissioners apparently expressed sympa-thy for the companies increasing difficulty with Japanese competition, but in no way

PRESSURE to protect the European Community's trou-

committed the EC executive, officials said yesterday.

The secret meeting was called last Friday and Saturday in a small town in Burgundy by Mr Jacques Delors, the Commission president with Commission president, with Bull and Thomson, France's state-controlled electronics companies, Siemens of Germany, Olivetti of Italy and Philips of the Netherlands.

Also present were Mr Martin Bangemann, the EC industry commissioner, Mr Filippo Maria Pandolfi, the research commissioner, and their two directors-general.
The attempted secrecy of the

meeting, news of which leaked into the French press over the weekend, reflects the sensitivity of the issue, as much within the Community as in within the Community as in relations with Japan.
Sir Leon Brittan, the competition commissioner who had succeeded in pruning dirigiste elements out of the Commission's March paper on the electronics sector was a possible. absence from the Burgundy meeting – although he was assured in advance that it would not compromise his pol-icy of controlling state aids. Sir Leon is examining the com-plaint by ICL of Britain, which is majority-owned by Fujitsu of Japan, against the French gov-ernment's recent decision to inject FFr6bn (\$1.06bn) of fresh

capital into Bull and Thomson. Mr Alain Gomez, chairman

of Thomson, recently called for the establishment of high EC customs duties on Japanese electronic goods for an adjustment period of five years.

"That will be enough for us to catch up the unwarranted advantage acquired by the Jap-anese thanks to 30 years of unfair competition," he told La manr competition," he told Le Monde newspaper. An EC official said yesterday that Mr Gomez's ideas could not be considered close to Commission thinking.

Tomorrow, EC research ministers will discuss, at France's insistence, the issue of whether foreign-owned companies should participate in EC.

should participate in EC research programmes. ICL was recently barred from a couple of Esprit information technology programmes in which it had been marginally involved. But UK officials said yesterday they had firm assurances from Mr Pandoifi that ICL would not be excluded from any important research on grounds of its

ownership. mens results, Page 20

The Bundesbank marks time

THE LEX COLUMN

Despite the headlines about the surging dollar, the real story in the foreign exchange markets still looks to be the weakness of the D-Mark. Given the dissent among the Group of Seven, there might seem a hint of perversity about this. Germany argues for monetary tightness and the US for laxity, yet money continues to flow from the D-Mark to the dollar. Allowing for the difficulty of measuring the unified German economy, it is not even clear that money supply growth in the two economies is wildly different by now. But with the help of such mishaps as Chancellor Kohl's election defeat at the week-end, sentiment on the

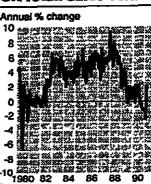
D-Mark is running rapidly To an extent, one can see the market's point. The way ahead for the US economy is pretty clear, apart from matters of timing. The outlook for Ger-many is profoundly unclear on virtually everything, including basic economic policy. The risk premium on the D-Mark, as measured by the interest rate differential, has been rising steadily for the past of steadily for the past six months and now stands at a full three percentage points.
For the Bundesbank, the
immediate problem is that the US interest rate cycle may already have hit bottom, so that a rise in German rates may be needed merely to stop the differential widening further. It is hard to see how the Bundesbank can reassert its authority other than by catching the market unawares with the timing and extent of its next rate rise. By definition, if the Bundesbank gets it right there could be shocks ahead for the other members of the

AT&T/NCR

American Telephone and Telegraph's five month bid for NCR looks to be over bar a little more shouting. Sunday's improved offer from Ma Bell delivers the \$110 per share demanded by NCR at least on the basis of the AT&T price at Friday's close. And while the target company is demanding holders in the event of AT&T stock slipping back, there is a limit to which such guarantees can be reasonably extracted.

An agreed deal has always been on the cards, though Wall Street's strength is helping resolve a corporate battle which has been grubby even by US standards. AT&T has

UK retail sales volume



the votes into the hands of its employees but as things stand it is due back in court soon to try to remove another poison pill. The telecoms giant, in the meantime, has managed to unseat only four members of the NCR board and is faced with the ousted chairman con-tinuing the fight as chief exec-utive, while staff morale at both companies may soon become an issue. With all these prudent to take advantage of the healthier share price, pay a little more and hope NCR goes

The all-paper nature of the new offer is crucial, since it would allow AT&T to account for the takeover without having to write off goodwill against earnings. AT&T share-holders nevertheless face some short-term dilution. They will also have a long wait for the benefits, though that is not to say they will not come. It is just that the precedents for merging computer and communications businesses - very much a 1980s idea - are not terribly auspicious.

Retail sales

The quirky nature of the latest UK retail sales figure leaves the markets in the dark on consumer spending just when guidance is most nee Analysts were yesterday kick-ing themselves for forgetting that the last VAT rise in 1979 led to a near-7 per cent jump in sales on the month, followed by a 10 per cent plunge the month after. But the rise in the VAT rate this time is insignificant com-

pared with last, especially since many retailers were prompt to announce that they were not passing it on. If there has been a real underlying recovery, it will be the more welcome after a run of seven been beleaguered on several months in which retail volume shares will doubtless more bronts. It may have scuppered was down on the year before. It than make up lost ground. The

to wait another month to fine out.
That apart, the prospects for

opaque as ever. It might be thought that real wage increases would be an impor-tant determinant. But it remains to be seen what will happen if workers settle for low nominal rises on the basis of plunging headline inflation, only to find that the stubborn-ness of core inflation leaves them worse off than before. In the meantime, the markets may have to settle for guidance on production rather than con-sumption. Next Tuesday's quarterly survey from the Conderation of British Industry, which ought to show the first signs of revival, will be the most closely scrutinised for a

Ratners

Judging by the reaction to yesterday's figures, investors think Ratners has turned some kind of corner. The shares have underperformed the market by a third in a year and by a half over three years, so a change was overdue. Last year's small rise in pre-tax profits to 2112m was a reasonable performance, especially when measured against other retailers. But there was no hiding the dilutive effect of the undigested Kay Jewelers acquisition in the US. Worryingly, too, costs in the UK rose much faster than sales.

Ratners is now trying to per-suade investors that it has grown up. Out has gone the image of the mindless pursuit of sales. In its place is a sober management culture in which costs must be contained to protect the bottom line from the effects of flattening turnover. It all looks appropriate, comes perhaps six months late and is arguably inevitable at such a low point in the economic

In the medium term, Ratners will push ahead with the inte-gration of Kay in the US and try to grow organically towards 50 per cent market share in the UK. Less expan-sionist shareholders might pre-fer to see the company exploit-ing its UK leadership by forcing immediate price forcing immediate price increases on a sector where volume growth has tailed off.
On forecast profits of £125m,
the shares at 177p are on a
prospective p/e of 9, backed by
a solid yield of 8 per cent. If
Ratners can prove that it has
procled the US market its cracked the US market, its fronts. It may have scuppered was down on the year before. It than make up lost ground. The NCR's plan to put 8 per cent of is also the more vexing to have rating seems fair until then.

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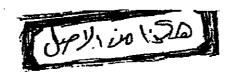
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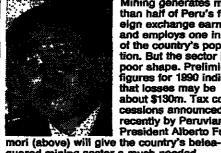
Occidental back on the up and up



Mr Ray Irani, the new chairman of Occidental Petroleum, has taken a scalpel to the Los Angeles-based energy and chemicals group with the alm of concentrating on its core businesses. His medicine appears to be working as Occidental yesterday announced net first-quarter earnings up from \$108m to \$136m. Bernard Simon reports on the group's progress since the death of its legendary chairman, Armand Hammer. Page 22

Mixed results at Spanish banks Two leading Spanish banks have reported sharply different profit performances during the first three months of the year. Banco Santander, the commercial bank, increased first-quarter net consolidated profits by 21 per cent while Banco Espanol de Credito, one of Santander's moist plants. tander's main rivals, reported a 17 per cent drop in net profits for its financial group, which excludes its industrial corporation. Page 20

Mine, mine, all mine



THE STATE OF THE S

Mining generates more than half of Peru's foreign exchange earnings and employs one in five of the country's popula-tion. But the sector is in poor shape. Preliminary figures for 1990 indicate about \$130m. Tax conrecently by Peruvian President Alberto Fujibreathing space. Page 30

Move to oust Budgens head

A group of institutional shareholders is attempting to remove John Fletcher as chair-man of Budgens and install a new management team at the troubled UK grocery chain. The group which holds 27 per cent of Budgens' shares, has put a proposal to the board "concerning the future direction of the company". John Thomhill reports. Page 26

Travis Perkins falls again



Travis Perkins, the builders' merchants and timber group, has seen its profits fall for the second year in a row due largely to the recession in the UK housebuilding industry.

Pre-tax profits fell almost 38 per cent from £32.8m (\$56.2m) to £20.36m, compared with a decline of 16 per cent the previous year. Tony Travis, group chairman, noted: "The current year will be another difficult one for the construction industry ... and first-half profits, there-fore, will be down sharply." Page 26

Market Statistics

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London traded options
London tradet options
Managed fund service
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World stack mixt indices
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Companies in this section

Amcliffe Avon Products Banco Catala Capital Cities/ABC Ciydesdale inv Trust Coats Viyella

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Cummins Engine Daimler-Benz Devenish EFM Dragon Trust

Kingston Oil & Gas La Redoute Marsh & McLennan 28 Merrill Lynch Mrs Fields

Norske Skog Nova Occidental Petroleum Polymark Ramco Oil Services 27 Rathers 21 Schneider 20 Schneider 26 Square D 28 Synapse Compute 28 Travis Perkins 20 United Industrial 27 VME

Chief price changes yesterday 15 105 127 13 148 1018 - 29 TOKYO (Yes) Fulf Kleen 900 + 100

Fallin
Anglen Water
Breat Water
Curteen Curnass
Chatsias and
Clayform Prop
Fields (Mrs)
Gustanes (Apton
Turkes Marsa 213

Tuesday April 23 1991

Siemens held back by Nixdorf loss

By Andrew Fisher in Frankfurt

STEMENS, the German electrical and electronics group, lost DM380m (\$227m) on its computer activities in the first half of the financial year to September 30, 1991, as it began to integrate the business of Nixdorf, which it rescued last year.

The continuation of Nixdorf's

losses have added to Siemens' burdens at a time when world economic conditions have deteri-

If AT&T's latest bid, of \$110 a share (in AT&T stock or stock

and cash) for the Ohio-based

computer company is accepted, NCR shareholders will have seen

the value of their investments

increase almost two and a third

They owe thanks for their good fortune to the rugged determina-

times in the past four months.

of resisting AT&T's embrace.

It was not a universally popular attitude. NCR's shareholders

interested in the future of the

company as a computer business appland Mr Exley's apparent intransigence; those who are interested chiefly in realising the

value of their investment as quickly as possible - Wall

Street's arbitrage community -

think he has merely been drag-ging out the inevitable.

AT&T's opening bid in Decem-

ber last year - at \$90 a share - valued NCR at \$6.12bn. Although

Mr Exley immediately rejected

the offer - arguing there was no industrial logic in the takeover -

he suggested that the companies could do business if AT&T valued

From that point, resistance

deteriorated into price haggling. Mr Exley reduced his demand to

\$110 a share while Mr Robert Allen, chairman of AT&T, raised his offer first to \$100 a share and

then two days ago to NCR's ask-ing price. The latest offer values the company at \$7.48bn.

The new offer could have bro-

ken the impasse in what has been one of the most bitterly-

fought hostile takeover battles

the modern computer industry bas ever witnessed. If the offer is

accepted, then AT&T will have

NCR at \$8.5bn or \$125 a share.

to which the Nixdorf loss held back its full result. Analysts, who pointed out that German companies have considerable accounting leeway in arranging how they report their results, have already forecast lower group earnings per share

The group said the loss made by Siemens Nixdorf Informations-systeme, created by the merger of

taken to integrate the two compa-

New computer orders in the first half totalled DM5.7bn, a fall of 5 per cent, with invoiced sales 17 per cent lower at DM5.1bn. wever, allowing for the backlog sales were less than 10 per

Siemens said the integration of Nixdorf into the group was going well, but was not completed. The second quarter saw strong

DM800m loss in the last nine months before its full absorption by Siemens last October. Some DM300m of this was to meet restructuring costs and valuation

The group has already warned that growth in total profits would be difficult this year. In the last financial year, net income rose 6 per cent to DM1.7bn and Siemens raised its dividend.

in new orders to DM41.4bn though half the improvement stemmed from the first-time inclusion of new businesses.

Domestic orders rose 80 per cent, with business in east Germany, much of it linked to vital

infrastructure improvements, totalling DM1.4hm.

The group said foreign business stagnated. The 6 per cent rise in foreign orders to DM23bn was mainly due to the inclusion of the merged Siemens Nixdorf operation and the activities

ritory.
AT&T's basic plan is to merge its small and unsuccessful com-nuter business into NCR, leaving the Ohio company essentially

alone to manage the business.

For a new computer company

to stand a chance of success

today it must:

Have identified a market niche in which it can be a leader;

Offer products based on low-

cost, standard microprocessor chips; ● Offer "open" systems based on

standard operating software;

Have firm control of "chan-

nels" - dealers, value-added resellers and software houses

copyright on, the software system, Unix, which most manufac-

turers now agree will become the

industry standard for open systems. NCR, alone among the

large computer manufacturers,

has taken the plunge into designs

based on low-cost microproces-

sors and the Unix operating sys-

Despite the fact that it is not among the world's top 10 com-puter manufacturers, NCR is a leading supplier of financial systems and dominates the mar-

ket for automated teller machines - "holes-in-the-wall".

manufacturer of cash registers in the 1800s, would give AT&T's computer ambitious

a powerful fillip through its dis

tribution channels. It has already

been identified by Europe's larg-

est manufacturers as a potential

will be possible for the staff of two such different companies to

AT&T has no record of success

route into the US market. The big question is whether it

work together profitably.

TCR, which began as a

AT&T developed, and owns



T. Boone Pickens: no rush **Pickens**

may sell 26% stake in Koito

By Bernard Simon in New York

TEXAS CORPORATE raider Mr T. Boone Pickens is considering selling his 26.4 per cent stake in Koito Manufacturing, the Japanese motor parts manufacturer which has repeatedly spurned his advances.

A spokesman for Mr Pickens yesterday told the Associated Press news agency that the dis-posal of the Koito shares, currently worth about \$850m, is among several options being considered by the Dallas-based financier. "We're not in any rush, but it's one of the things we're looking at," the spokesman

However, he denied Japanese reports that Mr Pickens has already sold his shares back to Kitaro Watanabe, the Japanese speculator who secretly financed the purchases with a loan

secured by the shares.

A Koito spokesman said in New York yesterday that the Japanese company had no "direct information" on the reports of Mr Pickens' retreat, but that "we would certainly not be surprised by such a turn of events."

Mr Pickens has had several well-publicised run-ins with Koito, which has refused to give him any representation on its board and has consistently accused him of being a front for Mr Watanabe's efforts at

short-term speculation.

The market price of Koito shares has halved since Mr Pickens made his initial investment two years ago through his pri-vately-held holding company, Boone Co. Mr Pickens' willingness to put

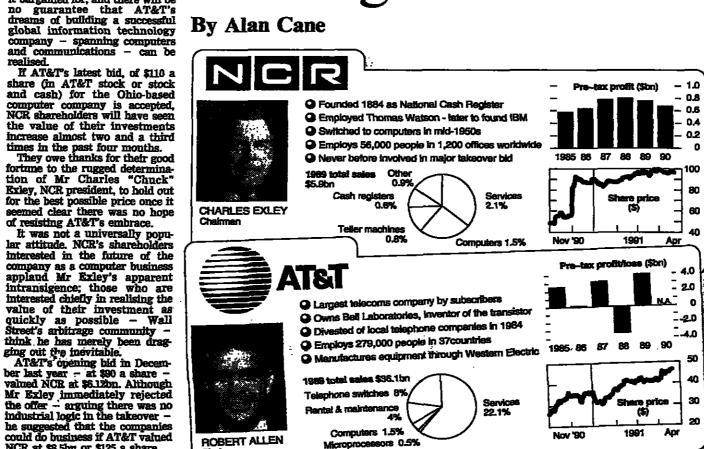
his shares up for sale may be influenced by the financial diffi-culties of Mesa Limited Partner-ship, the large US natural gas producer of which Mr Pickens is the general partner and in which he has a 4.5 per cent stake.

its computer interests with Its total first-half net profits Nixdorf, partly reflected a back-log of DM500m in unbilled sales. Siemens Nixdorf said recently it might not show a profit for the Outlining overall group prog-ress in the first half, Siemens rose 6 per cent to DM793m. Siemens did not spell out the extent

AT&T keeps the pressure on NCR with \$110 per share offer

If AT&T is now in sight of achieving its aim of buying NCR, the fifth-largest US computer manufacturer, the only sure winners are likely to be Winners and losers NCR's own shareholders. The takeover battle is likely to in the global dream cost AT&T, the US telecommunications giant, \$1.36bn more than it bargained for, and there will be

By Alan Cane



group's stock without the approval of the target's board.

NCR showed an appetite for the fight which surprised those familiar with its sleepy market-ing methods. It deployed a series of "poison pill" defences including an employee share ownership scheme, which was later declared invalid. AT&T set up a proxy bat-tle at the NCR shareholders' meeting in March and succeeded in ousting four directors, including the chairman.
AT&T's battle for NCR is, how-

spent more than \$12m in legal fees and NCR about \$7m on its ever, likely to prove only the beginning of a very long road for North America's largest telecom-From the outset, a sizeable pro-portion of NCR's shareholders munications company. The history of mergers between large had wanted to accept the AT&T bid. AT&T, however, was con-strained from simply buying electronics groups is stained with red ink and littered with failures.
Unisys, for example, the
world's fifth-largest computer
company forged five years ago shares in the market by Mary-land's takeover laws. These do not allow a company to acquire more than 10 per cent of another

from parts of Sperry and the Burroughs Corporation, lost \$496m in 1990. It is still struggling to resolve the problem of two com-

Separate and the second second

pletely different product families.
Siemens-Nixdorf, put together
just over 12 months ago from the
loss-making Nixdorf and the
barely-profitable computer operations of Slemens, is expected to lose money this year. It is proving difficult to find common ground between the radically dif-ferent cultures of the two compa-

Groupe Bull, which two years ago took over the US personal computer manufacturer, Zenith, has been experiencing similar problems. This is despite its declared intention to manage the company at arms length from the rest of its computer operations. Groupe Bull is being propped up with FFr4bn (\$684m) of invest-

ment from its largest shareholder, the French government. Furthermore, over the past decade both AT&T and International Business Machines, the world's largest computer manufacturer, have made abortive

in computers. Its computer divi-sion turns over about \$1.5bn a year and loses about \$200m. A merger with NCR may be its last chance. But if it fails, it will

bring the computer manufacturer down with it and Chuck Exley's worst fears about a merger he never wanted will have been real-

Guinness Mahon warns of £35m losses in first half

By David Lascelles, Banking Editor, in London

GUINNESS MAHON, the merchant banking group which is 65 per cent owned by the Bank of Yokohama, warned yesterday that it would report a heavy loss in its interim results because of mounting bad debts.

The company is making a £30m (\$51.5m) provision for loan losses, and will report an after-tax loss of £35m for the six months ending March 31. An interim divi-dend is unlikely to be declared. The group will seek to raise \$50m through a rights issue. This will have the full support of the Bank of Yokohama. The £50m

will more than double the £45m level to which Guinness Mahon's capital has fallen after the losses. Mr Geoffrey Bell, chairman of Guinness Mahon, said yesterday that the losses had been incurred mainly because of the bank's pol-icy of lending to the property and small company sectors, both of which had been badly hit by the UK recession. The bank had also lent £5m to Polly Peck, which collapsed last year.

keep a closer watch on operations. The Japanese have three representatives on Guinness Mahon's 12-person board.

The news triggered a sharp fall in Guinness Mahon's share price.
The stock closed at 42p, down 8p on the day. This compares with the 1460 per share paid by Bank the 146p per share paid by Bank of Yokohama. The Japanese group bought its stake for £95m in 1989 in the first significant acquisition of a merchant bank by a bank from Japan. Last year, Chinness Mahon americant Guinness Mahon announced losses for the 12 months of £7.5m and cut its dividend.

Japanese group files for protection

No management changes are planned, but Mr Bell said that the Bank of Yokohama would be

placing more people in London to

By Stefan Wagstyl in Tokyo

SHIZUSHIN Lease, a Japanese financial company with debts of Y255.5bn (\$186m), filed for court protection from its creditors yesterday in a further sign of the pressures imposed by high interest rates and weak property mar-

Shizushin, a medium-sized leasing company, will go bankrupt if its creditors fail to agree on a reorganisation plan.
If it goes under, it will be the

year after Nanatomi, a property

fourth-largest corporate failure in Janan and the second-biggest this

developer, which went bankrupt owing Y300bn. Shizushin would be the first financial company to fail during the squeeze on credit in Japan. The company was founded in 1982 and began by financing the

lease of office equipment. It sub-sequently expanded into property lending.
Its borrowers include a company run by Mr Suemitsu Ito, a property developer connected with Itoman, the trading com-pany which ran into financial dif-ficulties through investment in

الرواز والمرابع والمراجع والمستهدان والمستعلق والمعارض والمستعظم والرواز والمرازي والمرازية

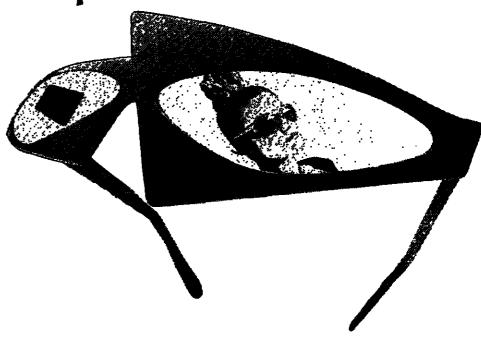
land. Mr Ito worked for Itoman for eight months until he resigned late last year. During that time, he was responsible for expanding its property invest-

ments.

Shizushin, based in Shizuoka, a town west of Tokyo, was established with the help of the Shizuoka Shinkin Bank, a local insti-

Shizuoka Shinkin has a 4.7 per cent stake in Shizushin, but it is not thought to be threatened by the leasing company's difficul-

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> In Touch with Tomorrow TOSHIBA

Agnelli company lifts Perrier stake By Haig Simonian in Milan and William Dawkins in Paris IFI International (Ifint), the Luxembourg-based holding

which controls the Perrier mineral water group.

Ifint told the French stockmarket authorities yesterday that it could raise its existing 13.5 per cent stake in Exor, to just over 21 per cent. However, a Perrier spokesman said the

company partly owned by

Italy's Agnelli family, has acquired an option to become

the largest single shareholder

in Exor, the investment group

deal will have no impact on the mineral water group.
It is not known whether Ifint

plans to exercise its option.

By John Thomhill in London

RATNERS Group, the jewellery chain, will implement a stringent cost-reduction

programme this year leading to the loss of up to 1,000 jobs as it attempts to combat recession-

ary markets in the UK and the US.

Although the company pushed annual pre-tax profits up from £108.22m to £110.05m (\$189.3m) before property gains, Ratners' fully-diluted

earnings per share fell 9 per

cent to 23.50 as cost increases outstripped sales growth.

Mr Gerald Ratner, chairman, said the company had to cut overhead costs and would do

by 5 per cent as well as cutting stockholding and distribution

costs and trimming some of its guarantees and credit

Kaufhalle says

a statement its 1990 turnover was DM2.28bn (\$1.36bn), up

DM422m or 23 per cent from

1989. The rise was largely due to opening 18 shops, Kaufhalle said. Excluding openings, sales

Kaufhalle said the improve-ment had continued in 1991,

with turnover rising by more

than 22 per cent.

earnings rise

"It is no good just hibernat-

although the mere fact of owning it means the group is con-sidered under French law to have lifted its stake in Exor to above 20 per cent, at which level it has to make an announcement

If Ifint exercises its option, it will overtake Ms Corinne Mentzelopoulos, whose family is Exor's main shareholder and who now owns 18.6 per cent of the group. However, analysts said this is unlikely to change the Mentzelopoulos' control

Exor made no comment yes terday and securities analysis confessed to be baffled by the deal. The Agnelli family could ed to be haffled by the

ing like a hedgehog during a recession," he said. Sales in the year to February

topped the £1bn mark for the

first time, climbing 24 per cent

The results were boosted by the inclusion of Kay Jewelers, the US chain which was bought for £207m last year.

Kay, which has been quickly integrated with Ratners' exist-

ing Sterling business in the US,

contributed £14m to operating

Overall, operating profits rose 3.6 per cent to £134.25m. The UK saw a reduced contri-

bution of £79.74m, against

£93.37m, but this was more

than offset by the US which added £54.5m against £36.12m. In the UK, most of Ratners'

high street chains registered

be strengthening its French industrial portfolio, which already includes stakes in BSN, the food group. Accor in hotels, and the Pechelbronn holding group, said Mr Sylvain Massot, food and beverages analyst at Morgan Stanley's London office. He thought it very unlikely that Ifint would increase its stake without

Exor's agreement. Ifint paid around FFr700m (\$119.5m) for its existing 13.5 per cent share in Exor in January, making it then the group's third biggest shareholder. It has now acquired options

for another 7.86 per cent from

gain; Ratners 18 per cent; and Zales and Ernest Jones 19 per

However, Watches of Swit-

zerland, the group's most upmarket chain, was hit by a fall in tourist levels and

recorded an 11 per cent slide in sales, while Salisburys, the handbag chain, incurred a loss

Salisburys is being substan-

tially pruned from 220 stores to

170 at an exceptional cost of

An extraordinary charge of 26.74m was also taken as a

result of the company's deci-

sion to shut its Regent Jewel-

lers chain, which operates 43

increased market share in the

UK by 10 per cent to 83 per

Ratners claimed it had

stock clearance branches.

Ratners may axe 1,000 jobs in cost cutting

Rovida, a Swiss-based holding company and currently the second largest shareholder, which had 18.2 per cent of Exor's stock.

Ifint, 23 per cent of whose ordinary shares are owned by the Agnelli-controlled Istituto Finanziario Industriale (IFI), bought its stake as part of a complex share swap with Ms

Mentzelopoulos.

According to Ifint, the option to buy a further 335,000 Exor shares is held through Trifin, an Amsterdam-based holding group it controls. If exercised, the option would raise lfint's stake in Exor to 21.37 per cent.

Mr Ratner repeated his ambi-

tion of grabbing half of the total UK jewellery market -

within four years - and 10 per cent of the US market. "With

the competition collapsing

there is nothing out there to stop us," he predicted.

But he added that at present sales in both the UK and the

US were "more or less flat" and that margins would be fur-

ther squeezed by the compa-ny's decision to absorb the

A final dividend of 7.6p will lift the annual pay-out to 10p, representing a 5 per cent

Ratners Group announced

that Sir Victor Garland, a non-

executive director of the

Prudential Corporation, had

recent VAT increase.



INTERNATIONAL COMPANIES AND FINANCE

Daimler pre-tax profits fall 10%

By Andrew Fisher

DAIMLER-BENZ, the diversified German motor group, said its pre-tax profits fell by around 10 per cent last year, much of the decline caused by currency move-ments.

ment, however, net profits were 6 per cent higher at DM1.8bn (\$1.03bn) compared with the comparable figure of DML.7bn_

It actually announced a net profit of DM6.8bn for 1989, but DM5.1bn of this was due to a change in accounting methods. Daimler gave no pre-tax figure for last year.

Turnover rose by 5 per cent to DM85.5bn. The company said it would maintain its dividend at DM12

a share. Mr Edzard Beuter, the chief executive (pictured above), said in February that Daimler had considered raising its dividend until it became clear last autumn that the dollar's weakness - which especially affects Mercedes-Benz car sales in the US — and worsening economic conditions would hold back profits.

Last week, AEG, its electri-cal and electronics subsidiary, announced a DM205m loss for

Daimler said a further loss was expected this year as a result of restructuring mea-Sures.

The group's Deutsche Aerospace unit has also said it is cutting 1,000 jobs because of lower defence sales. ter of intent. Separately, the company

Banco Santander ahead but Banesto slips back

against Pta8bn last year. Gross operating profits for

the financial group rose, in

contrast, by 12.5 per cent to Ptal9.3bn due to a 9.8 per cent

rise in the financial margin to

Pta42.9bn and to strongly

increased income from com

missions which were up by 51

per cent to Ptall.6bn. Operating costs were up by 19.5 per

cent to Pta35.3bn.
Total consolidated assets of

the financial group, which exclude those of Banesto's industrial conglomerate, increased by 26.4 per cent to Pte5,399hn in the first quarter.

A notable feature of this fig-ure was a 29.7 per cent rise in

By Peter Bruce and Tom Burns in Madrid

BANCO SANTANDER, the Spanish commercial bank which owns 10 per cent of Royal Bank of Scotland and which recently bought 13.3 per cent of First Fidelity Bank in the US, said yesterday its first-quarter net consolidated profits increased 21 per cent to

Pta20bn (\$187m). Banco Espanol de Credito (Banesto), one of Santander's main Spanish rivals, reported a 17.15 per cent drop in net first-quarter profits for its financial group (which excludes its industrial corporation) to Pta12.99bn, largely because of a sharp fall in extraordinary

Santander, which recently sold control of Electra de Viesgo, a northern electricity
utility, for Pta40.5on, giving it
a net profit on the deal of
Pta14.8on, said its cash flow in the first three months of 1991 had increased 65.46 per cent to Pta54.4bn, almost half of which

had been made over to provi-sions and reserves. Santander said shareholders

loans to Pta2,606bn. In the first would receive its second 1990 three months of 1990, loans to dividend payment - Ptal00 - on April 30, making the total the private sector were limited to a 10 per cent increase under payout for the year 16.22 per the government's credit restriccent higher than in 1989. Banesto's lower results were due to sharply reduced extraor-

Banco Bilbao Vizcaya, dinary income which usually involves disposal of assets. Banesto's financial group made Spain's largest bank, said yes-terday it had bought a further 6 per cent of the large Catalan Pta2.9hn from such sales in the water utility, Aguas de Barcafirst three-quarters of this year lona, to take its stake in the

group to 14.5 per cent.
The bank bought the extra stake from the Catalan gas utility, Catalana de Gas. Its efforts to form a giant Catalan energy and resources group were frustrated last year when Repsol, the state-owned oil conglomerate, and La Caixa, the Barcelona savings bank, com-bined to take control of Catalana de Gas and merge it into

Repsol's growing gas interests.
The government, however, has been keen to prevent Aguas de Barcelona falling into French hands and will have actively supported BBV increasing its stake.

San Paolo ready for Spanish expansion

By Heig Simonian in Milan

di Torino, the big Turin-based bank, is negotiating to buy Banco Catala de Credit, a medium-sized Spanish bank owned by Banco Banesto. The purchase would substantially boost San Paolo's expan-

sion plans in Spain, where it bought a 35 per cent stake in Banca Matutes, a small 32-branch private bank, last year. Banco Catala de Credit has 105 branches, 26 of which are around its Barcelona base, and the remainder in Catalonia. It had net profits of L12.3bn (\$9.59m) last year. Banca Matutes is concentrated on the

San Paolo could not com-ment on the likely price for the acquisition, but confirmed talks were under way on a let-

Balearic Islands. San Paolo itself last year opened a Madrid

denied recent Italian press reports that San Paolo had sub-stantially raised its stake in Hambros, the UK merchant bank, following the sale by Bal-tica, the Danish insurance group, of a 14 per cent stake.
San Paolo's holding has recently risen to about 14.9 per cent from 14.3 per cent, but this was due to the exercise of

• Sasib, the quoted food, packaging and industrial group controlled by Mr Carlo De Benedetti's CIR holding company, raised net profits by 16.6 per cent to L70.2bn from L80.2bn

convertible bond holdings.

last year.

Total sales jumped by 22 per cent to L619.70n, with foreign turnover, boosted by acquisitions, surging by 50 per cent to L439.2bn. The company is pay-ing a dividend of L230 for ordinary shares and L250 for its

Vard reverses into deficit

By Karen Fossii in Oslo

NORWAY'S Vard shipping group said yesterday that in the first quarter of this year it had plunged into a pre-tax defi-cit of NKr37.3m (\$5.53m), compared with profits of NKr104.4m in the same period of 1990.

Vard said that the poor result was due mainly to a large number of cancellations by customers for Kloster Cruise, the group's cruise unit, during the Gulf war. Kloster Cruise reversed its

A \$18.17

1277

1990 first-quarter NKr67.5m profit into a NKr25.9m loss for the first quarter of this year. The figure includes a currency The figure includes a currency exchange gain of NKr84.1m.

The group warned that Kloster Cruise's bookings in the second quarter will also be affected by a general decline in the cruise market but suggested that results would improve

improve.

Vard said that the capacity in Royal Viking Line, another cruise operation, is to be reduced by 70 per cent in 1992.

comparative sales increases. H cent and that it now held 5 per joined the board as a non-exec-Samuel produced a 13 per cent Fokker plans to build 130-seat airliner

By Ronald van de Krol in Amsterdam

KAUFHALLE, a unit of Kaufhof Holding, said its 1990 profit was well above 1989 lev-FOKKER, the Dutch aerospace group, aims to complete a fea-sibility study on developing a els, but gave no details, Reuter reports from Cologne. The German retailer said in new 130-seat airliner by the

end of 1991. The Dutch company is one of several European aircraft manufacturers to have announced its interest in entering the market for 130-seat aircraft. "Four players in that market egment are too many, but Fokker believes that it must be one of those four." Mr Marten Kuilman, the chairman, said at the annual report presentation.

If Fokker's plans proceed as expected, its proposed 130-seat-er aircraft would be based largely on its 100-seater Fokker 100. Fokker is also considering the development of an 80-seat aircraft which would be a

derivative of its former F28. In 1990, Fokker's net profit nearly doubled to Fl 83.4m (\$42.1m) from Fl 42.4m in 1989. The sharp rise was due mainly to lower financing charges, higher contributions from asso-ciated companies, and book profits from divestments.

Despite the steep increase, the company announced in March that it was postponing the resumption of dividend payments. It attributed the delay partly to the sacrifices being asked of its workforce, where jobs are being cut to reduce costs and counter the weakness of the dollar.

Mr Brik Jan Nederkoom, the group's finance director, said the recent strong rise in the dollar had brought it back to a more "comfortable" level for

GROUP PROFITS SKr m

[4]4[]44][4][4][4]44 Bank of China

U.S. \$200,000,000 Floating Rate Notes 1992 In accordance with the provisions of the Notes, notice is

hereby given that, for the six month period 23rd April, 1991 to 23rd October, 1991, the Notes will bear interest at the Coupon No.8 will therefore be payable on 23rd October, 1991, at US\$8,260.42 per coupon from Notes of US\$250,000 nominal and US\$330.42 per

coupon from Notes of US\$10,000 nominal. S.G. Warburg & Co. Ltd.

ALLIANCE - LEICESTER Alliance & Leicester Building Society £13,000,000

Subordinated Floating Rate Notes due 1998 For the six months 19th April, 1991 to 21st October, 1991 the Notes will carry an interest rate of 12.2625% per annum with an nterest amount of £62,152,40 per £1,000,000 Note, psyable

on 21st October, 1991. sted on the Luxembourg Stock Exchange

ALLIANCE - LEICESTER

For the six months 19th April, 1991 to 21st October, 1991, the tes will carry an interest rate

Bankers Trust Company, London Agent Bank

LEGAL NOTICES WHYTE & SMITH LIMITED

Date of appointment of joint ad receivant: 9 April 1991 tame of person appointing the joint admirative receivers: National Westminster F

LISTAIR SINCLAIR

CLUBS

B.C.E.N. EUROBANK

savings shares respectively.

The Board of Directors of the BANQUE COMMERCIALE POUR L'EUROPE DU NOBU - EUROBANK convened on the 18th April 1991 under the chairmanship of M. Benned DUPUY and in the presence of Means V.V. GERASCHEREGO, Chairman of the State Bank of the USSE (Moscow), and I. POLETAEV, Vice-Chairman of the Bank for Economic Foreign Affairs of the USSE (Moscow). The secock included in particular the decision on the 1990 accounts and the convenient of the College General Meeting on the 21st May

The mealts for the past financial year are fairly contrasting is comparison with those for 1969.

This total for the balance sheet amounted to FFr 20 268 m. on 31/12/90, as against FFr 36 510 000 m. on 31/12/89. This sharp full has resulted from three factour:

- a counne in intertent operations, - a slowdown in general activity, penicularly in Hest European countries - variations in exchange rates.

On the other hand, the capital base of the Bank (Stockholders' Equity and suberdinated Joses) increased sharply. After distribution of the profits for the 1990 financial year the capital base amousted to FFr 2 960 000 m., as against FFr 1 330 000 m. on 31/12/69. Provisions for the countries risks reached approximately 60%. They now content only a limited number of countries after a first tranche of "thrission", realised in 1990. A second tranche is planned for 1991 and it will concern other countries. On the other hand, the capital base of the Bank (Stockholders' Equity and subordies

The Not income from banking operations emounted to FFT 352m., as against FFT 432 m. on 31/12/89. As is the case of the total for the balance sheet, this fall reflects the sharp reduction in the activity of the Bank in 1990.

However, for their part, effor tax profits recorded a sharp rise to FFr 260 m., as against FFr 19 m., following a real canno property sale and lease-back operation.

These not earnings will be allocated entirely to the Reserve Account, and they will be partly employed in increasing the Capital funds of

Taking into account the important changes raking place in Costal and East Burspean countries, the Bank was led to redefine its strategic policies. After pursuing a policy of great caution in granting eradic facilities, sharply reducing its interbank commitments and implementing, in 1990, several measures for improving the balance short, whilst at the same time sharply increasing its capital base the policy of the Bank will focus on the following two main areas: ding our Tuste Pinence operations, t studies and financial consultancy for companies in the Soviet Union and, in the West, for ou sh themselves in the USSR through, in particular, our new subsidiary in Moscow : Compagnic

The extent of the changes to be brought about in East European countries will require a strong banking involvement. Estable to adapt efficiently to these encouncies requirements with proper control of their risks, will see vant markets open up.

Our Bank, which has always maintained a strong presence in this area, wishes to maintain its full position, by offering its elicots a fast This strategy will be further developed in view of accoming to themselves to the Bank opportunities which may pro-

The major Shapeholders of B.C.E.N. - EUROBANK, i.e. the State Benk of the USSR and the Benk for Honoromic Formign Affairs of the USSR, have approved the new policies as defined. On their behalf, Mosess, V.V. GERASCHENKO and L POLETAEV assured the Board of Directors of the B.C.E.N. - EUROBANK of their confidence and unfailing support.

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B.C.E.N. - BUROBANK

SEMEN, 75008 PARIS (France

£38,000,000 rdinated Floating Rate Notes due 1998

of 12.2625% per annum with an interest amount of £62,152.40 per £1,000,000 Note, psyable on 21st October, 1991.

STEPHEN JONATHAN TAYLOR and HUGH Joint Administrative Receivers (Office holder nos 7821 and 6033) of Cork Gally, Abous House, 32 Frier Lune, Leles-ter, LET 6PA

FINANCIAL TIMES CONFERENCES

TELECOMMUNICATIONS **EUROPEAN BUSINESS**

9 & 10 July, 1991 - London



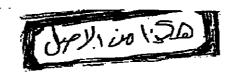
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Astra's Growth Continues Losec, the antipeptic-ulcer agent, has become Astra's largest selling product just two years after the first market launch. Agents for respiratory diseases become Astra's largest selling

1990 HIGHLIGHTS 1990 1989 9,420 7,457 Sales, SKr m +26% Profit (before appropriations and taxes), SKr m 2,507 1,846 +36% Research expenditure, SKr m 1,573 1,337 +18% Capital expenditures, SKr m 1,054 583 +81% Earnings per share after full tax. SKr 15.85 11.00 +44% Earnings per share after actual tax, SKr 16.30 11.20 +45% Proposed dividend, SKr 3.25 2.50 +30%

Notice of Annual General Meeting

Notice of Attendance

own forms of proxy to the company.

The annual general meeting of AB Astra will be held at 6.00 pm on Monday 13th May 1991 at the Stockholm international Fairs and Congress Centre.

Sharcholders on record on the Swedish Securities Register (VPC AB) on Friday 3rd May 1991 will be eligible to participate in the agm. Sharcholders wishing to attend must notify the company by noon on Wednesday 8th May by mail at the following address: Board of Directors, AB Astra, S-151 85 Südertälle, Sweden, or by telephone int +46 755 265 16.

Shareholders whose shares are registered in nominee names must, if they wish to participate in the meeting, be temporarily recorded in the shareholders' register at VPC

AB. Notice must be given to the nominee in ample time before 3rd May 1991.

A shareholder may attend and vote at the meeting in person

or by proxy but, in accordance with Swedish practice, the company does not send forms of proxy to its shareholders. Shareholders wishing to vote by proxy should submit their

Change

product group.

GROUP SALES SKr m

Agenda

(1) Matters required by the company's Articles of Association to be set before the annual general meeting.
(2) The Board's proposal for a decision on a bonus issue whereby shareholders in the company receive one new share for every three old shares held. Old restricted and old unrestricted Class A shares shall entitle holders to receive new restricted and new unrestricted Class B shares shall entitle holders to receive new unrestricted Class B shares. The bolders to receive new unrestricted Class B shares. The new shares shall carry dividend rights as of the 1991 financial year. The record date for the bonus issue shall be Friday 16th August 1991.

The Board's entire proposal for a decision on the bonus issue will be available as of 6th May 1991 at PR & information, AB Astra's head office. The proposal will be sent to shareholders upon request.

The Board proposes Tuesday 21st May 1991 as the record date for entitlement to the dividend proposed in the respect of 1990. Subject to approval for the Board's proposal by the meeting, dividends are expected to be mailed by VPC AB on 28th May 1991. Södertälje, Sweden, April 1991

STR

Scandinavia's leading pharmaceutical company

OVERSEAS UNION BANK LIMITED US\$100,000,000 Subordinated Floating Rate Notes due 2011

In accordance with the provisions of the Notes, notice is hereby given that the rate of interest for the six months 23rd April, 1991 to 23rd October, 1991 has been fixed at 69/x9%. The interest payable on the relevant interest

(Redeemable at the option of the Noteholders in 1996 and 2006)

Agent Bank Chartered WestLB Limited

payment date, 23rd October.

1991, will be US\$8,339,84

per US\$250,000 Note.

MARKET

Fax: 071-925 2125 Telex: 27347 FTCONF G NEW BULL MARKET

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By Victoria Griffith

USIMINAS, the steel group due to be one of the first com-panies to be privatised in Bra-zil this year, announced an inflation-adjusted net loss for last year of NGrz1.5bn, or short San at todor's media

about \$5.3m at today's unoffi-

cial rates. In 1989, the group registered an inflation-ad-

justed net profit of NCrz36bn.

Using another accounting method, the group claimed a net profit of NCr21.9bn, a result which led Usininas to

claim it was the only steel group in Brazil last year to record a positive result.

The group blamed recession at home and an overvalued

cruzeiro for the feeble figures.
Demand for steel dropped 30
per cent in Brazil last year,
dipping to its lowest level in
13 years. These factors, how-

ever, did not exact a heavy toll on gross receipts, which rose in real terms from NCrz129hn in 1989 to NCrz139bn last

A bigger problem seemed to

be mounting expenditures on debt service. In 1989, Usiminas

earned large amounts of interest on its resources but in 1990, the situation had turned around, and led the group to delant a loss of contributes of

NCrz2.1bn.
This loss was despite what

the group referred to as a "rig-

orous programme to reduce costs".

UIC closes two

offices in move

Corporation (UIC), Singapore's diversified holding company,

in the past two months has closed down two of its over-

seas offices and plans to scale

down a third in a cost-cutting

move, AP-DJ reports from

And "if the price is right,"

UIC will also dispose of more foreign assets, a UIC official

"UIC is in a period of consolidation after swallowing an

elephant," the official said, referring to its takeover of Singapore Land last summer.

As a result, UIC's group debt stood at more than S\$1.4bn (US\$788m) at the end of last

He said UIC's Perth and Los

Angeles offices have been shut

down, while the Hong Kong office will be "scaled down".

UIC has investments in

With its Dallas hotel sold about six months ago, UIC has no significant assets in the US. The UIC official also said that

the Perth office, mainly set up to look for investments in

equities and real estate, has

been "quite quiet since

In all, some six people were laid off. The Hong-Kong office, now staffed with 6 to 10

employees, will be scaled

down by natural wastage, the official said. He did not reveal

plans for the eventual size of

UIC owns an office building in Tokyo. The UIC official said

that this, and the property group's hotel in China, are

open to sale at the right price.
The official could not detail
the savings from the recent

Interest Rate

Interest Period

U.S. \$100,000 Note due

23rd October 1991

U.S. \$100,000,000

Collateralized Floating Rate Notes Due 1992

Credit Suisse First Boston Limited

Dresdner Finance B.V.

U.S.\$ 400,000,000 Floating Rate Notes 1983/1993 with Warrants

The Rate of interest applicable to the interest Period from April 23, 1991 to Ooto-ber 22, 1987, Inchrishely, was determined by Morgen Quaranty Trust Company of New York, London, as Reference Agent to be 6% per cent per annum. Therefore, interest per Note of U.S.\$ 10,000 principal amount is due on October 23, 1991, the relevent interest Payment Date, in the amount of U.S.\$ 338.77.

Great American

6%% per annum

23rd April 1991

U.S. \$3,335.94

23rd October 1991

First Savings Bank

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in Sao Paulo

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Dresdner Bank Principal Paying Agent

INTERNATIONAL COMPANIES AND FINANCE

Brazilian Cummins sees quarterly steel group operating loss of \$34.3m plunges into red

CUMMINS Engine, one of the world's leading diesel engine makers, suffered a first-quarter operating loss and warned of a further decline in the North American heavy truck market.

Cummins' bottom line was bolstered by various accounting changes, which resulted in net earnings of \$17.2m, or \$1.02 a share, compared with \$8.9m, or 41 cents a share, a year earlier

But sales slipped to \$311.5m from \$361.4m, and there was a loss before the accounting changes of \$34.3m. A new

inventory accounting method and an adjustment to the method of depreciating engine production equipment produced a one-time gain of \$26.5m.

The company expects to decide within the next month whether to cut its dividend from the present annual rate of \$2.20 a share. This month Cummins said

its second-quarter operating loss would be cut substantially provided production volumes hold, but it warned yesterday that a further drop in the truck

market is expected over the next few months. North American heavy-truck output has sunk by 45 per cent since the first quarter of 1989 and by 14 per cent since last summ Cummins said the UK truck

market and worldwide orders

for off-highway vehicles have also weakened "significantly". The company has laid off another 170 workers at its US heavy-truck engine plants this month, bringing the cuts to 3,800 people, or 14 per cent of the worldwide workforce, in

San Miguel debt plan overturned

By Greg Hutchison in Manila

A PLAN by San Miguel the Philippine brewing conglomerate, to issue convertible debt has been voted down by shareholders after the company's former chairman had argued that the issue would prejudice his interests.

The vote at the San Mignel annual meeting on Friday represents another winning round by former chairman, Mr Eduardo Cojuangco, in the fight to reassume a substantial role in the management of San Miguel.

At stake, according to Mr Cojuangeo's lawyer, was ulti-mate control of San Miguel, the Philippines' biggest industrial company.

Under the management's debt plan, shares in San Miguel nominally owned by Mr Coju-angeo, but held in trust by the government, would not have qualified for the convertible

issue.
Mr Cojuangco's 18 per cent equity stake in San Miguel was taken into guardianship by the Good Government Commission in 1986 because of allegations that the shares were acquired



Andres Soriano: rejection could hurt company's plans

The shares remain in dispute and were thus unavailable for Friday's shareholder vote. Since the plan involved the eventual issue of 7.5 per cent of San Miguel's outstanding shares, it threatened to dilute seriously Mr Cojuangco's potential shareholding.

Mr Andres Soriano, the chairman of San Miguel, said the company's management believed the 3bn pesos (\$110m)

convertible debt issue was "in the best interests of the com-pany", and that its rejection "could hurt some of our

plans". The issue, together with 2bn pesos from internally generated sources, was earmarked for an expansion and modernisation programme.
The Good Government Com-

mission holds stakes in 300 Philippine companies pending a determination of whether they represent unlawful pro-

Mr Estelito Mendoza, Mr Cojuangco's lawyer, said the decision was likely to have a knock-on effect for another Cojuangeo case pending before the Supreme Court.

This relates to shares seized by the commission in the United Coconut Planters Bank, which, if freed, would unlock the bank's indirectly-owned 30 per cent stake in San Miguel.

Along with the 18 per cent stake and residual proxies, this would give Mr Cojuangco effective control of San Miguel together with eight of the 15 seats on its board of direc-

Kao hit by overseas operations

By Stefan Wagstyl in Tokyo

KAO, the Japanese toiletries maker, last year suffered losses in its overseas operations which virtually wiped out the increase in profits made inside

Japan.
The group yesterday posted a rise in consolidated pre-tax profits for the year to March of just 0.4 per cent to Y38bn (\$274m), compared with an Y40.1bn at the parent company. The parent company

operations within Japan. Six subsidiaries, including the US business, made losses.

The parent company saw sales rise 4.5 per cent to Y570bn. Growth was held back by intense competition in the market for household detergents, where Kao's highly-successful Attack has spawned imitators. Also, Kao made little new headway in hygiene products, including disposable nap-pies, where it launched New Merries. On a consolidated

basis, sales were up 6.7 per cent at Y662bn.

For the current year, Kao forecasts parent company sales of Y585hn, an increase of 2.6 per cent, and pre-tax profits of Y42bn, up 3.4 per cent. Kao said it hoped for increases in sales and profits despite a slow-down in the Japanese economy. It said that because the domestic market for house hold products was mature it was pouring its energies into developing new markets.

Venezuela may sell 35% of airline overseas

By Joe Mann in Caracas

VENEZUELA, in announcing the conditions under which it will privatise its Viasa international airline, says foreign air-lines will be able to buy around 35 per cent of the airline's shares.

The government stipulates that although it plans to sell up to 60 per cent of Viasa, it will keep at least 51 per cent in the Venezuelan hands. It also says airline employees can own up to 20 per cent of Viasa under stock purchase plans. Viasa, which flies to Europe, the US, Latin America and the

Caribbean, made a loss last year. Profits in previous years were due mainly to government export bonuses.

Viasa operates five DC-10 jets (four are owned by the air-line, one is leased) and three leased Airbus 300-B4s.

Officials say they plan to complete the privatisation of Viasa by July of this year. Potential bidders must set up consortia that will be able to operate the airline, the government said. • Petroleos de Venezuela

(PDVSA) plans capital invest-ments of \$48bn for domestic and international projects by 1996, including direct capital outlays of \$34bn by PDVSA

In addition, \$14bn is to be invested by overseas subsid-iaries, partners in existing

joint ventures and private companies which are developing new projects with PDVSA. PDVSA is one of the world's

largest petroleum companies and has oil refining and distribution assets in the US, Ger-many, Sweden and Belgium. The \$34bn in direct investments programmed by PDVSA represents an increase of 36 per cent - or \$9bn - over the \$25bn investment programme for 1991-96 announced at the

end of last year.
In 1990, PDVSA's total turnover topped \$23bn. The company has over 60bn barrels in proven reserves of crude oll, the largest in the western

VME plans to invest SKr135m By Andrew Baxter

VME Group, the construction equipment group owned jointly by Volvo of Sweden and Clark Equipment of the US, plans to invest SKr135m (\$21.8m) in its articulated dymptruck business, including SKr80m for a new factory in Sweden.

The investment is one of the very few so far this year in the

construction equipment indus-try, which has been hit by sion in the US and UK. In recession in the US and UA. In February VME announced a 10 per cent rise in 1990 operating profits to \$79m, against the industry trend and helped by a strong performance in conti-nental Europe.

producer of articulated dump-trucks and will be investing the money in its Swedish-based subsidiary VME Articulated

subsidiary VME Articulated Haulers.

Manufacturing will be moved to a new plant near the existing one at Braas, Sweden.

VME plans to modernise the dumptruck frames and bodies and reorganise the workforca. Production at the new plant will herin in autumn 1992.

will begin in autumn, 1992.

VME also plans to concentrate production of rigid dumptrucks at its plant in Guelph, Canada. Production at the group's rigid hauler operations in Landskrona, Sweden, will cease at the end of 1992.

VME is the world's largest

MITSUBISHI CAPITAL, INC. US \$ 15,000,000 CHARANTEED DUAL BASIS BONDS DUE 2000 (THE A BONDS) US \$ 9,000,000 GUARANTEED DUAL BASIS BONDS DUE 2000 (THE B BONDS) US \$ 26,000,000 GUARANTEED DUAL BASIS BONDS DUE 2000 (THE C BONDS)

In accordance with the provisions of the Bonds, notice is hereby given as follows:

THE "A BONDS"

* Interest period : April 22, 1991 to July 22, 1991
* Interest payment date : July 22, 1991
* Interest rate : 7.1375% per summ
* Coupon amount : US \$ 4,510.50 per note of US \$ 250,000 THE "B BONDS"

* Interest period : April 22, 1991 to July 22, 1991

* Interest payment date : July 22, 1991

* Interest rate : 6.7875% per sussum

* Coupon amount : US \$ 4,289.32 per note of US \$ 250,000 THE "C BONDS"

* Interest period : April 22, 1991 to July 22, 1991

* Interest payment date : July 22, 1991

* Interest pays 64125% per assum

* Coupon amount : US \$ 4,052.34 per note of US \$ 250,000 BANQUE INTERNATIONALE À L'UXEMBOURG AGENT BANK

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115,000,000 Shares

RJR Nabisco Holdings Corp.

Common Stock (par value \$.01 per share)

27,600,000 Shares

This portion of the offening was offered outside the United States and the Asia/Pacific region by the undersigned

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Morgan Stanley International

Credit Lyonnais Securities

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Enskilda Securities RBC Dominion Securities International

S.G. Warburg Securities

8,050,000 Shares

This portion of the offering was offered concurrently in the Asia Pacific region

Goldman Sachs International Limited Daiwa Europe Limited

The Nikko Securities Co., (Europe) Ltd.

Nomura International

Salomon Brothers International Limited Yamaichi International (Europe) Limited

Daishin Securities Co., Ltd.

Paribas Capital Markets Group

Salomon Brothers International Limited

The Development Bank of Singapore Ltd

Jardine Fleming International Inc.

79,350,000 Shares

This portion of the offering was offered in the United States by the undersigned

Goldman, Sachs & Co.

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April. 1991

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Dillon, Read & Co. Inc. Kemper Securities Group, Inc. **Montgomery Securities**

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All of these securities having been sold, this announcement appears as a matter of record only

April 15, 1991



Merrill Lynch & Co., Inc.

3,000,000 U.S. Dollar/Deutsche Mark Currency Put Warrants, Expiring September 30, 1992

Merrill Lynch & Co.

Add Assets

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INTERNATIONAL COMPANIES AND FINANCE

High margins lift Mobil 78% in first quarter

By Bernard Simon in New York

UNUSUALLY high refining margins in Europe and the Pacific Rim helped boost Mobil Corp's first-quarter earnings by

78 per cent. North America's second biggest integrated oil company lifted net earnings to \$710m, or \$1.73 a share, from \$400m, or 94 cents a share, a year earlier. The 1990 figure included a \$28m tax charge from a prior period. Sales climbed by 10 per

cent to \$16.6bn. The improved earnings were due largely to the strong per-formance of several international businesses. Income from marketing and refining soared

four-fold to \$442m, with non-US operations contributing \$342m, compared with \$81m a year

Mobil ascribed the wide international refining margins to a shortage of capacity. Earnings were especially strong in Singapore and in Australia, where Mobil has acquired Exxon's refining and market-

ing operations.

Natural gas output outside the US rose to record levels, due partly to the cold winter in Europe. On the other hand, North American exploration and production earnings were hit by the unremitting fall in

FOOD INDUSTRY

May 10th 1991.

It will be of particular interest to the 61% of European Chief Executives in food and related industries who are regular FT readers. If you want to reach this important audience, call Jonathan Wallis on 071 873 3565 or fax

FT SURVEYS

THIS NOTICE IS IMPORTANT AND REQUIRES THE IMMEDIATE ATTENTION OF HOLDERS OF BONDS.

IF HOLDERS ARE IN ANY DOUBT AS TO THE ACTION THEY SHOULD TAKE, THEY SHOULD CONSULT AN INDEPENDENT FINANCIAL ADVISOR AUTHORISED UNDER THE FINANCIAL SERVICES ACT 1986
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J Sainsbury (Capital) Limited

£150,000,000

5 per cent.

Convertible Capital Bonds 2004

guaranteed on a subordinated basis by

J Sainsbury plc

Notice of Required Conversion and Redemption

NOTICE IS HEREBY GIVEN to holders of the Bonds (the "Bondholders") of the Issuer's election, in accordance with Condition 7 (A) of the Bonds, to convert the Bonds into Preference Shares (in accordance with Condition 5 of the Bonds) which Preference Shares shall then be redeemed immediately upon allotment.

un of 3 per cent. Interest will cease to accrue on any o

on 23rd June, 1991.

S.G. Warburg & Co. Ltd.

2 Finsbury Avenue, London EC2M 2PA

or at the office of one of the other paying agents named on the Bond.

randing the foregoing, Bondholders will be entitled to exercise their rights to convert the Bonds and exchange sulting Preference Shares for Ordinary Shares of 25p each in J Sainsbury pic at any time up to and including 17th June, 1991 in accordance with the Conditions of the Bonds.

Bonds should be presented rogether with all unmatured coupons, failing which the amount of each missing unmatured coupons shall be deducted from the amount due for payment. Unconverted Bonds will become void unless presente for payment within the period of 12 years from the Required Conversion Date. Coupons shall become void unless presented for payment within a period of six years from the due date for payment thereof.

Bondholders should note that, in accordance with Clause 7 (A) of the Deed Poll, Ordinary Shares allotted on conversit of the Bonds and exchange of the Preference Shares will not rank for any dividend for which the record date is prior to the Share Exchange Date, it is expected that the record date for the final dividend on the Ordinary Shares in J Sainsbury plc in respect of the financial year ended 16th March, 1991 will be announced shortly, as part of the preliminary announcement of results for the year.

S.G. Warburg & Co. Ltd.
a member of SFA
on behalf of J Sainsbury (Capital) Limited
Date: 23rd April, 1991

he paid on the Bonds in respect of the period from (and including) 19th April, 1991, to (but red Conversion Date. The Preference Shares will be redeemed at their Paid-up Value of £5,000

rly, on 24th June, 1991, there will become due and payable in respect of each outstanding Bond, on of such Bond (together with all unmatured coupons), an amount of £5,195.14 at the office of the Principal Paying Agent:

natural gas prices caused by warm weather, weak demand and competition from alterna-

tive liquid fuels. Crude oil prices were about level with a year ago, but some \$10 a barrel below the fourth-

quarter average.

Mr Allen Murray, the chairman, said that although refining margins have recently narrowed from the peaks earlier this year, "they should con-tinue to support good earnings, although below first-quarter levels". He noted, however, that earnings from petrochemicals have recently come under

Occidental reaps tax benefits of restructuring

OCCIDENTAL Petroleum has begun to reap the tax benefits of a \$2.2bn restructuring charge taken after the death last December of Dr Armand Hammer, who presided over the Los Angeles-based energy and chemicals group for more than half a century.

Net first-quarter earnings were \$136m or 45 cents a share, up from \$108m (37 cents a share) a year earlier. The latest figure, however, includes a \$53m tax benefit from operating loss carryforwards created by last year's restructuring. These carryforwards, which totalled \$1.7hn last December, can be set off against taxes on

future operating income and

capital gains. They are recorded as an extraordinary Mr Ray Irani, who took over as chairman when Dr Hammer died, has taken the scalpel to Occidental with the aim of concentrating on the core busi-nesses of oil, gas and chemicals. He has put several of Dr Hammer's pet projects on the block, and laid off 1,000 employees. He symbolically signalled the break from the past by moving the annual meeting from Dr Hammer's

days earlier.
Oil and gas earnings in the first quarter rose 22 per cent to \$122m, reflecting higher oil prices and production, higher international natural gas vol-umes and improved domestic gas liquids prices.

hirthday on May 20 to a date 10

On the other hand, earnings from chemicals dipped by 25 per cent to \$139m, as a result, among other things, of higher feedstock prices and lower



• Olin, the Connecticut-bas in the first quarter as part of a

uct lines.

The company expects the sale to be complete within the As a result of the charge, Olin suffered a first-quarter loss of \$59m (\$2.20 a share),

Ray Irani: has taken the scalpel to Occidental

chemicals and special metals producer, took an \$80m charge restructuring aimed at improv-ing cash flow and profitability. Other measures include a 10 per cent cut in the salaried

workforce and the disposal of several peripheral or unprofita-ble businesses.

Those being put on the block include industrial phosphates, electronic chemical and interconnect operations, and some small chemical and metal prod-

next 18 months. against earnings of \$32m (\$1.60 a share) a year earlier.

Estraings from continuing operations, before the special charge, were \$21m, but the recession pushed sales down by 12 per cent to \$561m.

Overseas arms help Avon to 10% rise

By Karen Zagor

AVON Products, the world's biggest maker of cosmetics and tolletries, yesterday turned in a 20 per cent improvement in

first-quarter net income.

The result included strong gains from the company's overseas operations offsetting the deteriorating performance of its US business.

For the first three months of 1991, Avon had net income of \$18.4m or 16 cents a share against \$15.2m or 11 cents a year ago.

\$769.6m from \$703.8m. The 1991 figures include a \$7m settlement with Chartwell Associates, the investor group which recently agreed to abstain from launching a proxy fight for increased control of Avon's board for 10 years, after nearly two years of putting consistent pressure on Mr James Preston, Avon's chairman, said the company

expects a good year in 1991 thanks to its strong international position. "Avon continues to benefit

from having a global portfolio of businesses that minimises the impact of a recession in one country or region," he New York-based company said pre-tax profits from its international business

grew 40 per cent in the quarter on a 25 per cent improvement on sales, led by Europe and the In the US. Avon's pre-tax

profit fell 12 per cent on a 7 per cent decline in sales This reflected the continued impact of recession, particularly in the north

Avon, which has been steadily reducing its debt, said debt at the end of the 1991 first quarter was \$572.7m, down 18 per cent from \$695.9m a year

Schneider bid for Square D examined by Canada

By Barbara Durr in Chicago

THE Canadian government's Bureau of Competition Policy has begun a formal inquiry into the proposed acquisition of Square D of the US by

France's Groupe Schneider.
Both companies, which produce electrical equipment, have significant competing businesses in Canada. Under Canadian law, an inquiry begins only if there are reasonable grounds to believe an acquisition could substan-

tially prevent or lessen competition in Canada. Square D has been fighting off Schneider efforts to take it over since February, when Schneider made an unsolicited

offer of US\$78 per share, or \$1.9bn, for the company. Square D wants to remain independent and is looking for third parties with which to make alliances.

Mr Jerre Stead, chairman of Square D, said Schneider's takeover effort "raises substan-

tial questions under the Canadian competition laws as well as under the US anti-trust laws and competition laws of sev-eral European countries". A US District Court is sched-

uled to consider Square D's allegations that the Schneider acquisition would violate US anti-trust laws on May 13.

Square D is also urging the
US Federal Reserve to review
the Schneider takeover bid on

the grounds that it would violate US banking laws. American bank holding companies are prohibited from owning more than 5 per cent of a nonbanking company.

At issue, according to Square
D, is the control of Schneider
by Paribas and Société Génerale, the big French retail bank,
which hold 9.7 per cent and 10
per cent respectively of the per cent, respectively, of the shares of SPEP, which in turn holds a majority interest in Schneider.

US insurance broker ahead

By Nikki Talt

MARSH & McLennan, the world largest insurance broker, yesterday reported firstquarter income of \$96.6m after tax. against \$94.2m in the same period a year earlier. The increase was scored on total revenues up to \$744.1m from

The rise in operating income was slightly larger - up to \$171.2m from \$161.8m after expenses increased by 7.3 per cent to \$572.9m. But interest income was reduced to \$6.7m

Correction Fred Carr

In early editions of the Financial Times of April 13 a picture of Mr Fred Carr, the chief executive of WI Carr (Investments) was published. The picture should have been of Mr Fred Carr, the chairman of First Executive.

Recession and war cut into profits at Capital Cities/ABC

By Karen Zagor in New York

THE IMPACT of recession on advertising demand and the cost of covering the Gulf war has cut into the profitability of Capital Cities/ABC, one of the three biggest US television net-

works. It yesterday unveiled a 38 per cent slump in first-quarter operating income to \$120.2m and warned of a possible fur-ther decline in second-quarter

The company owns the ABC radio and television national networks, local television and radio stations and weekly newspapers, including the Fairchild fashion trade publica-

It said first-quarter net income plunged about 45 per cent to \$58.6m or \$3.50 a share from \$106.3m or \$6.08 a year earlier on revenues which were essentially unchanged at

\$1.26bn. Operating income in the first three months of 1991 was \$130.3m, against \$211.5m a year ago, while income before taxes dropped 44 per cent to \$103.4m

from \$186.2m. Capital Cities/ABC's weak first-quarter performance comes on the heels of poor results from CBS and General Electric's NBC broadcasting business, which were also hurt by higher news costs and the very weak advertising market Capital Cities/ABC said vesterday there had been a return to more normal business pat-terns since the end of the Gulf

However, the company said levels of advertising demand might not be sufficient to pre-vent earnings from declining in the second quarter of this

Capital Cities/ABC said the operating profits from its television network in the first quarter of 1991 represented a significant decline from the previous year's results.
In the three months ended

March 31, revenues from the company's broadcasting operating advanced to \$1bn from \$992.5m, thanks to gains from the telecast of the Super Bowl and two National Football League (NFL) Wild Card play-

Capital Cities/ABC's publishing operations brought in reversions of \$250.6m in the latest quarter, down about 7 per cent from the previous year. Operating income from publishing dropped 24 per cent to \$18.4m from \$24.8m, with declines in all operating groups.

Abitibi-Price reveals smaller loss of C\$5.5m

By Robert Gibbens in Montreal

ABITIBI-PRICE, one Canada's three biggest inte-grated pulp and paper groups, yesterday revealed that it had posted a small loss in the first

It also warned it expected a difficult year because of poor markets, especially in news-

Sales in the period dipped 7.5 per cent to C\$726m (US\$625m) and the first-quarter loss was C\$5.5m or 9 cents a share, against a loss of C\$11.3m or 17 cents a year earlier, including a C\$13.7m special charge.
During the quarter, Abitibi, controlled by the Reichmann brothers of Toronto, made two

disposals for C\$53m. More non-core assets will be sold to reduce debt.

Even the paper distribution and converting businesses, though profitable, will be adversely affected by the recesion throughout 1991. In the first quarter Abitibl

lost money on an operating basis in all its activities, except distribution and converted products. Newsprint production was 444,000 tonnes and groundwood papers were 105,000 tonnes,

both around the same level as a year earlier.

a year earlier.

• Campeau Corp has sold a 10 year old office building in Montreal to Confederation Life Insurance, raising the total generated by property sales in eastern Canada to book of Catalogue in the property of the catalogue in the cat about C\$500m in the past

Nova may split into two

By Robert Gibbens in Montreal

NOVA, a large Canadian are subject to big price swings.

At present the gas transmischemicals group, is considering splitting its business into two shareholders maintaining their

proportionate interests. Nova is the main natural gas pipeline operator in Alberta, a provincially-regulated business and hiving off this activity would ease the task of raising new capital.

The other entity would hold the oil and gas and petrochemical interests and raise capital

on its own. Petrochemicals and plastics

In 1988 Nova bought Polysar's petrochemical business for well over C\$2bn (US\$1.7bn) and last year sold the synthetic rubber division for C\$1.35bn. Its 43 per cent interest in Husky Oil would be rolled into the new energy and petrochemicals company.

RBC Dominion Securities

and Morgan Stanley of New York are advising Nova on the restructuring.

1990 results

	1990	1989 excluding air transport	% variation 1990/1989
Net sales (millions of francs)	10,988	12,682	- 13.4 %
Net income [millions of francs]	527	705	- 25.2 %
Net earnings per share (france)	84.80	108.52	-21.9%
Net equity per share (francs)	1,024.40	969.03	+ 5.7 %

Chargeurs 1990 consolidated sales amounted to FF 10.9 billion, down 13.4 % from the comparable figure for 1989 (that is excluding the Air Transport sector which was sold in early 1990). This decline is due to the Textile sector which generated 1990 sales of FF 8.8 billion, a fall of 18.1 % compared to 1989. Two factors account for this fall : the warsening of the world crisis in the wool market and the significant reorganization carried out by the

garment fabric division.

Net income amounted to FF 527 million, 25.2 % lower than the 1989 figure. Three factors explain this result : the net gain of FF 1.5 billion on the sale of UTA and Aéromaritime shares, an exceptional provision of FF 407 million on BSkyB, and the exceptional depreciation of FF 735 million of goodwill on several Textile

It will be proposed that the Annual General Meeting declare a dividend of FF 42 per share, the same paid for the previous year.



CHARGEURS

High interest rates with Jvske Bank Currency

38P, England

dell'Agricoltura S.p.A. ed with limited liel USS 150,000,000

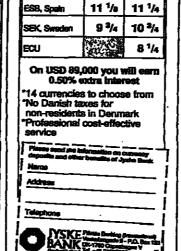
Banca Nazionale

Issued by Bankers Trustee Company Limited evidencing entitlement to payment or principal and interest on deposits dell'Agricoltura S.p.A.

the Rate of Interest has been fixed at 6-50% for the interest period 23rd April, 1991 to 23rd October, 1991. The Interest amount payabl on 23rd October, 1991 will be US\$ 3,304-17 in respect

Notice is hereby given that

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Notice to Holders of Warrants

4% US\$ 100,000,000 Mafina Bonds 1986-1996 2% DM 250,000,000 Mafina Bonds 1986-1993 2% SF 250,000,000 Mafina Bonds 1987-1994

The rights arising from the warrants shall expire at the close of business in Franturt am Main (for the US\$ an DM issues) and in Zurich (for the SF issue) on May 21, 1991 (instead of May 20, 1991, which is Whit Monday).

The Shareholders of SANDVIK AKTIEBOLAG

are hereby invited to attend the Company's Annual General Meeting, which will be held at Folkets Hus in Sandviken, Sweden, at 2 p.m. on Thursday 16 May 1991.

NOTIFICATION

Shareholders wishing to attend the Meeting most notify the Board thereof either by letter addressed to Sandvik AB, Legal Affairs, S-811 81 Sandviken, or by telephone, +46 (0)26-26 10 81. Such notification must reach Sandvik AB not later than 3 p.m. on Monday 13 May 1991. In order to qualify for attendance, Shareholders must have been entered in the Share Register kept by the Securities Register Centre (Värdepapperscentralen VPC AB) not later than Monday 6 May 1991. A Shareholder who has had his shares registered as held in trust ("förvaltarregistrering") must have them temporarily re-registered with the VPC in his own name not later than 6 May 1991 to establish his right to attend the Meeting.

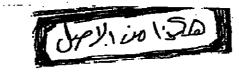
Items of business which, under the requirements of the Companies Act and the Articles of Association, must be transacted at the Annual General Meeting, among them being the presentation of the Annual Report and accounts and the Audit Report, the motions to adopt the Income Statement and the Balance Sheet and the Consolidated Income Statement and Balance Sheet, to approve the conduct

and the President and the appropriation of the Company's profit according to the adopted Balance Sheet, the fixing of the fees for the Directors and Auditors, and the election of Directors and Auditors.

Register kept by the Securities Register Centre and the List of Assignees, etc., that is maintained in conjunction therewith shall be reconciled. The Board proposes that this "record day" shall be Friday 24 May 1991. If the Meeting adopts this proposal, it is envisaged that dividends will be remitted through the agency of the Securities Register Centre on Friday 31 May 1991 to those who on the record day were entered in the Share Register or in the aforesaid List of Assignees.

Sandviken, April 1991 The Board of Directors





MOST MARKETS HAVE SHOWN A SHARP RECOVERY. BUT WHICH MARKETS? AND HOW BEST TO INVEST?

nternational investors are facing two important decisions. Which areas show most promise? And when is the right time to buy?

How can the enterprising international investor make the most of this opportunity and, no less crucially, how long will it last?

More specifically, which regions, which countries and which companies are best equipped to recover, stabilise and finally, thrive?

Why do we believe the time is right?

Simply put, you can still buy low, but markets are looking up.

We think now is the right time to invest into

the nineties.

But what makes us so optimistic that the traumas of the late eighties are behind us?

The war in the Gulf is over. All over the world, select equity investments are once more beginning to look attractive. But investors should guard against indecision.

Inflation is finally beginning to come under control. Overall company profitability has improved. Balance-sheet ratios have also improved and profit percentages have recovered from the low levels they reached at the start of the eighties.

Since the end of the Gulf war <u>consumer</u>

<u>confidence has risen sharply</u>, which leads us to believe that world economic growth will take off again.

New investments will be needed to fuel the nineties. Investments for the application of new technologies, investments to improve the economic infrastructure of countries, and not least, investments for the environment. This is true of all countries, but there are certain economies where the prospects for rapid and significant growth are greater.

The breakdown of the communist system in the Eastern Bloc has released a tremendous potential for economic growth in Europe. Both the East and the West will eventually benefit from the developments. And what of the newly developing countries in the Pacific? Or the enormous economic potential of the countries in the Americas?

We firmly believe that the potential for immediate and continued growth in these key areas is enormous. It is just beginning to be tapped. All around the world, these select economies are preparing for lift-off.
Will there ever be a better time to invest?

USA: Will you profit as the sleeping giant awakes?

The USA is the largest economic power in the world. (Its gross national product is twice that of Japan's). But the rest of the world, led by Japan, is catching up.

And believe it or not, that's good news.

In short, American business has learned to fight again. Managers have finally got used to the idea that they have to work to win a position on the international market.

They've unquestionably become hungrier. And the present dollar exchange rate is still giving them a tremendous boost.

But there are still unanswered questions.
Will Canada gain from export of energy to the eastern United States? And if the US manufacturing sector is currently exporting 20% of its output, which are the companies exporting at twice that rate?

With discussions under way on a North American free trade zone, which companies in Mexico stand to gain most from access to the US market? And talking of which, how will the Stock Exchange in Mexico develop?

Europe. Can you afford to ignore the potential of the new order?

Europe is a region in which great changes have taken place in recent years. The emergence of a vast common European market, the rapprochement between Western and Eastern Europe and the United Kingdom with the continent of Europe, provide abundant challenges and opportunities.

The prospects for the region are fascinating.

For example, will the UK gain from entry to the EMS? Will France and Belgium gain from the West German need to supply the new Eastern Länder?

Of course, a great deal depends on whether the countries of Western Europe help in the rebuilding and restructuring in Eastern Europe.

If they do, as they assuredly will, Western European companies, in particular, will benefit hugely from this development phase.

The Far East. Can the region continue its record of growth?

Innovative products such as Walkmans, High Definition Television, memory chips, and inexpensive, reliable cars, have made *Japan* and the Far East the fastest-growing region in the world.

Will similar transformations occur in *Thailand*, South Korea and the *Philippines?* And if they do, which companies are likely to lead that transformation?

Or have Japan and the other newly industrialised countries become too dependent on exports to Europe and the USA? Will Japan be able to continue to defeat the pressure of labour scarcity on wage costs by research and development, and investment in automation? Will restrictions on Taiwanese investment in Southern China be relaxed? How will the economy of the 'Southern China triangle' develop?

And now the most important question of all. Who can you trust to invest your funds prudently?

Clearly, the key to investment success lies in answering these and other questions. Yet few international investors, however well informed, are equipped to deal with such issues.

False modesty aside, the Robeco Group is.
For almost 60 years, the Robeco Group,
Europe's largest and most successful investment
house has adhered to a long-term, low risk,
essentially cautious investment philosophy.

With conspicuous success.

Through our many years of experience and success investing over the long term and our thorough analyses of the market in every region of the world, we are in an excellent position to select shares in those countries, those branches of industry, and finally those companies where the prospects are brightest.

In the current climate, we have taken particular pains to address the questions facing the international investor seeking growth economies.

For more information on how to invest selectively in one or more of the regions described above, and for a fuller picture of the Robeco Group's enviable investment pedigree, write to Robeco Bank (Switzerland) S.A., or fax us on (41) 22 - 41 13 92.

		Dutch French	nal investments in one of the following languages: Tick appropriate box
Mr/Mrs/Mi	iss/Ms	Surname and initia	ds
Full address			
Postcode		Country	Telephone

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FT GUIDE TO WORLD CURRENCIES

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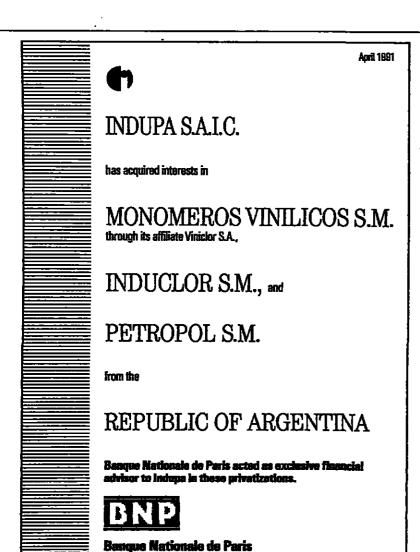
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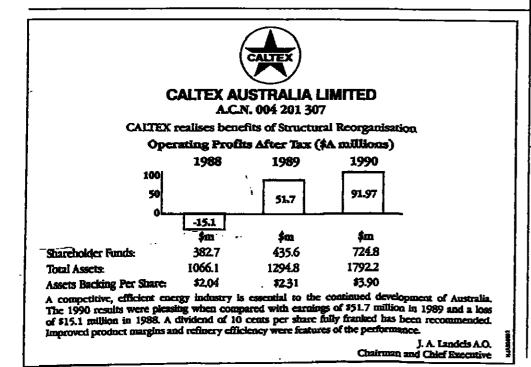
Monday, April 22, 1991

Fanza devalued to 60 to the US Dollar, March 18, (2) Tricky residued by 14%, March 25, US Romanian Leu despited 42%, April 8, (4) China Yoan devalued 0.95%, April 10. (5) Yugoslar Dinar devalued 31%, April 19.

Only one airline flies daily non-stop from London, Paris and Frankfurt to Tokyo.







Simmer and Jack **Mines Limited**

Notice to shareholders

The directors of the Simmer and Jack Mines Limited Caroup of Companies ("S&J Group") advise that with effect from 1 July 1991:

- 1. All existing agreements relating to the Simmergo Project will be cancelled.
- East Rand Gold and Uranium Company Limited ("ERGO") will acquire from the "S&J Group" stimes dams 4/L/9, 4/L/10, 4/L/28 and 4/L/29 which contain an estimated 17.5 million tons of slimes with an averge gold grade of the order of 0,49 grams per ton, for a consideration of R17966972. This amount will be used to subscribe for 2 478 203 S ordinary shares, which shares "ERGO" has undertaken to procure that Anglo American Corporation of South Africa ("AAC") will exchange for a like number of "ERGO" ordinary sheres.
- 3. "AAC" and its associates will have the right for a to explore for and mine for precious metals within the "S&I" lease area. The cost of developing a mine will be borne as to 50% by the "S&I Group" and 50% by the mining company and all operating profits will be shared on the same basis.
- 4. The loans from the "S&J Group" to "ERGO" and from "AAC" to the "S&J Group" have been repaid. These arrangements will not materially affect the earnings per shere of Simmer and Jack Mines Limited.

U.S. \$400,000,000 **& National Westminster** Finance B.V.

Guaranteed Floating Rate Capital Notes 2005 In accordance with the provisions of the Notes, notice is hereby given that for the six months interest Period from April 23, 1991 to October 23, 1991 the Notes will carry an interest Flate of 6½% per annum. The interest payable on the relevant interest payment date, October 23, 1991 against Coupon No. 13 will be U.S. \$330.42.

By: The Chase Manhattan Bank, N.A. London, Agent Bank



corporated in the Kingdom of Normay with Emitted Rability)
U.S.\$100,000,000
Floating Rate Subcretinated Notes Dee October 1997 Notice is hereby given that the Rate of interest has been fixed at 6.6875% and find the interest payable on the relevant interest Payment Date October 23, 1991 against Coupon No. 12 in respect of US\$10,000 naminal of the Notes will be US\$339.95 and in respect of US\$250,000 nominal of the Notes will be US\$8,498.70.

April 23, 1991, London By: Citibank, N.A. (CSSI Dept.), Agent Bank CITIBANCO

INTERNATIONAL CAPITAL MARKETS

German bonds tumble as election gloom deepens

By Simon London in London and Patrick Harverson in New York

GERMAN government bonds opened sharply lower yesterday as the market reacted to the defeat of the rolling Christian Democratic Party in state elections in the Rhineland

on the London International Financial Futures Exchange

GOVERNMENT BONDS

fell to 84.98 during the morning, against Friday's close of 85.27. However, the market showed resilience in later trading and the contract closed

The benchmark 10 per cent government bond maturing 2001 closed on a yield of 8.44 per cent, down from an open-ing level of 8.38 per cent. The election defeat gives the

opposition Social Dem overall majority in the Bundes rat, the upper house of the Ger-

The Bundesrat can block any legislation which affects the financing of the regional increases and reform of the corporate tax structure) and any moves to change the way in which the regions are administered. The gloom was increased by the weakness of the D-Mark on the foreign exchange market against the dollar. The US currency opened at around DM1.74 but fell back to trade at around DM1.7640 in late afternoon.

There are fears that the strong dollar could increase import prices, adding to inflationary pressures in the

Any signs of additional inflationary pressure would be countered by tighter monetary conditions. Fears of further tightening by the Bundesbank suppressed bond prices at the shorter maturities end more than at the 10-year maturity.

■ UK government bond prices showed little reaction to retail sales figures for March which pointed to a sharp upturn in consumer expenditure.

The benchmark 11% per cent government bond issue matur-ing 2003/2007 opened at 110& BENCHMARK GOVERNMENT BONDS -03/32 -03/32 -02/32 10.61 10.16 9.85 103-21 93-10 92-22 02/01 02/96 99,6392 -0.078 9.10 01/01 103,6800 -0.120 8.90 13.000 07/00 111,3096 -0.125 11.01 11.02 11.34

10.000 06/00 104,7500 -0.200 9.20 6.90 9.12

day, for a yield of 10.22 per

Figures showing retail sales growth of 3.7 per cent for March over the previous month were dismissed as a freak by analysts.

Most had predicted a month

on-month upturn of between 0.3 per cent and 0.7 per cent. The unexpected increase was blamed on a rush by consumers to buy goods before the new rate of VAT (17.5 per cent against 15 per cent at the old rate) came into effect on April 1. Elsewhere, the evidence remains mixed. Money supply figures on Friday showed Mo, the narrow measure of notes and coins in circulation, growing at an annual rate of 2.7 per cent. Yet bank lending was recorded at an all-time low.

■ JAPANESE government bonds fell back during Tokyo trading as the yen continued to depreciate against the dollar on the foreign exchange

bond issue No129 closed in Tokyo on a yield of 6.725 per cent, against a close of 6.705 per cent on Friday. In London trading the 129 slipped further for a yield of 6.73 per cent by late afternoon.

Trading remained focused on the foreign exchange market, where the dollar continued to move higher against the major currencies, including the yen. The US currency opened at Y138.75 and pressed ahead to Y138.75 and pressed ahead to around Y139.30 by the close of

cost of many imported goods into Japan. This could delay any easing of monetary conditions by the Bank of Japan later this year.

Tomorrow, the government is expected to issue Y800hn of 10-year securities, with a cou-pon of either 6.7 per cent or 6.8

IN THE absence of a lead from economic news, US government bond prices edged lower yesterday morning in light trading.

By midday the benchmark 30-year Treasury issue was down is at 95%, to yield 8.259 per cent. The two-year note was also slightly lower, down is at 100%, yielding 7.034 per

The market is resigned to the fact that the Federal interest rates in the near future. The sell-off that came in the wake of the Fed's inaction is complete, and yester-day's weakness was primarily a technical move ahead of the two-year and five-year note auctions due on Wednesday and Thursday this week, said

In the money markets the Fed intervened via overnight and exert an upward pressure on the Fed funds rate. The Fed's target for the rate remains 6 per cent, and yester-day Fed funds were trading below it at 5% per cent.

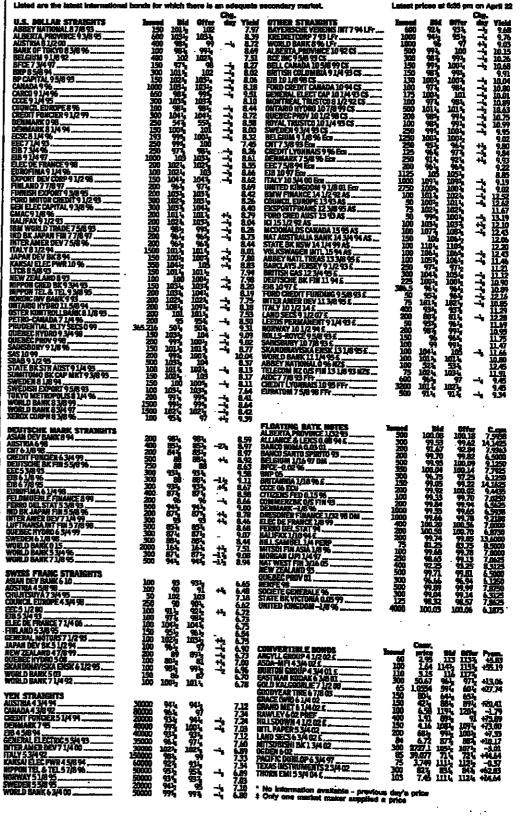
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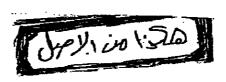
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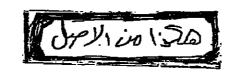
FT/AIBD INTERNATIONAL BOND SERVICE



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71 Investment Trusts (69) ...

FIXED INTEREST British Coverno

Fri Apr 19 Accrued xd adj. Interest 1991 change % 1 Up to 5 years (28)... 120.63 [-0.04 | 120.68] 2|5-15 years (30) |130.30| -0.03 |130.34| 3 Over 15 years (8) ... 138.60 | -0.05 | 138.66 | 1.94 4 irreteemables (6) . 155.02 +0.02 |155.00 5 All stocks (72) ... 129.61 -0.04 129.66 6 Up to 5 years (1). 158.07 158.06

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INTERNATIONAL CAPITAL MARKETS

Spain issue could spark Ecu primary sector revival

THE Ecu bond market, which has been subdued for the last month or so, looks set to revive, as the Kingdom of Spain prepares an Ecu750m-Ecu1bn issue of registered bonds. However, dealers say there is an overhang of paper from the deluge of issues ear-her in the year.

Banesto will lead manage the issue, which may emerge later this week.

Spain's debut in the Ecu market a year ago, an Ecu500m offering due 1995, has performed strongly and is yielding 9.08 per cent, a relatively expensive level compared with other secondary market issues. An intensive marketing campaign in Spain will seek to encourage domestic participation, which ran at around 5 percent for the last issue. On the face of it, Spanish investors have little incentive to buy Ecu bonds yielding 9 per cent or so, Spain's debut in the Ecu

bonds yielding 9 per cent or so,

Borrower US DOLLARS

INTERNATIONAL

when Spanish government bonds denominated in pesetas yield more than 12 per cent and carry no foreign exchange risk. However, the peseta is expected to weaken against the Ecu over the medium- to long-term, so domestic inves-tors' returns may be enhanced

by currency gains.
In addition, Banesto will again be offering Ecu bank accounts to retail investors. Nevertheless, despite its domestic, registered structure, the deal will be mainly placed internationally, and will trade like a Eurobond. The issue, which will not be swapped, is expected to be attractively priced, given its political pur-

The maturity and size of the issue could be fixed later today, once the extent of insti-tutional interest in the French Treasury's offer to exchange an outstanding six-year Ecu bond issue for longer-dated

bonds has been gauged.

In the Australian dollar market, the State Electricity Commission of Victoria launched an A\$100m 10-year deal. The borrower's outstanding debt is currently under review by Moody's for possible down-grade from Double-Al. However, the pricing took account of any uncertainty, dealers said. They added that investors know Australian states (the borrower is guaranteed by the State of Victoria) are declining medicing. credits. In the equity-linked sector, Unitike, a Japanese textile manufacturer, launched a \$110m four-year deal, quoted at a premium of three points to

its par issue price.

NEW INTERNATIONAL BOND ISSUES Unitika Go.(a)¶ P.T. Inti Indorsyon Utame(b)§t AUSTRALIAN DOLLARS State Elec.Comm.Victoria(s)† 2¹a/1³s Hambros Benk

101% 1%/14 Banco di Napoli

Brazil warms to overseas mediums

By Victoria Griffith in Sao Paulo

FOREIGN-issued medium-term notes have become one of the hottest corporate finance tools in Brazil this year, as tight credit and high inflation at

home force companies to look abroad for funds Brazilian companies have so far issued \$620m of medium-

term notes overseas in 1991. The product is officially known as "commercial paper" But because it must be placed at maturities of at least two years, bears more resemblance to medium-term notes.

Brazilian banks have been quick to take advantage of the change in rules. Banco Frances e Brasileiro (BFB), an associate of Crédit Lyonnais, has issued \$100m during the past few months, and is currently nego-

EQUITY GROUPS

& SUB-SECTIONS

Figures in parentheses show number of stocks per section

1 CAPITAL 60085 (187).

21 CONSUMER GROUP (185)... 22 Brewers and Distillers (22).

41 Business Services (13)... 42 Chemicals (21).......... 43 Conglomerates (10).....

48 Miscellaneous (22)

44 Transport (14) . 45 Electricity (14)

47 Water(10).....

51 011 & Gas (20).....

Hotels and Leisure (21) ...

29 Hotels and Leisure (21)
30 Media (24)
31 Packaging, Paper & Printing (16)
34 Stores (34)
35 Textiles (11)
40 OTHER GROUPS (108)

one Networks(4)

49 INDUSTRIAL GROUP (480) :..

59 500 SHARE INDEX (500)...

61 FINANCIAL GROUP (97).

68 Merchant Banks (7)

70 Other Financial (20).

tiating another \$100m issue. Credibanco has made a \$100m placement and Banco Real

"The product has given us an important new option in obtaining medium-term financing," said Mr Ruy Raya, head of commercial-paper issues at BFB. "Inflation is still so high here that it is extremely diffi-cult to obtain funds with maturation more than a few months

One of the main attractions of medium-term notes is their tax-exempt status. This allows multi-national companies to use the product to replace inter-company loans, which are

fully taxed. The success of this product contrasts sharply with domes-

FT-ACTUARIES SHARE INDICES

⁶ The Financial Times Ltd 1991. Compiled by the Financial Times Ltd

in conjunction with the institute of Actuaries and the Faculty of Actuaries

11.38 11.56

10.37

8.69

15.48 12.37

18.87

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9.44 8.25 9.10 10.06

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-0.8

to date

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4.05

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1532.30 2163.05

1229.97

2449.95

1332.78

676.83 1173.47

1202.18

Monday April 22 1991

Gress Div. Yield% (Act at (25%)

5.66 5.68 5.75 5.66 4.95 5.55 5.73 7.14

5.36 3.68 3.65 4.08 2.88 2.82 5.14 4.92 3.94 6.09 5.02 5.01 5.63 6.71 4.78 5.70 3.50 4.98

5.76 5.98 5.55 6.48 5.72 4.74 4.71 6.21

3.42

2 Coupons 3 (0%-74 %) 4 Medium 5 Coupons 6 (8%-104 %)

7 High 8 Coupons 9 (11%-)

Day's Day's High (a) Law (b)

Est. P/E Ratio (Het)

10.79 10.68

15.34 7.77 9.73 6.54 9.58 12.47 14.74

19.28 11.59 13.28

15.15 14.24 12.53

12.23 10.85 12.49 10.92 10.77 10.57 13.97

19.13

21.37

Apr 19

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Year

Year ago

11.98 11.65 11.59 13.21 12.13 11.87 13.33 12.42 12.17 11.56

Fri Apr 19

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Apr Apr Apr 18 17 16

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-29.3 | 2509.3 | 2490.8 | 2520.1 | 2538.4 | 2545.0 | 2519.5 | 2542.8 | 2159.2

zo adj. 1991 to date

tic commercial paper issues which have failed to catch investors' imaginations. Since the product came on the mar-ket in November last year, not a single issue has been made.

According to a spokesman for the Comissao de Valores Mobiliarios (CVM), Brazil's stock market watchdog, this is because a flat tax of 0.64 per cent of the total value of the issue has proved prohibitively

The issuing group must be registered with the CVM, itself a costly process. Domestically issued commercial paper also carries a maximum maturity of six months, a term unappealing to companies in dire need of longer-term

Wed Apr 17

Thar Apr 18

Japan to tighten curb on first-day **OTC** trade

THE JAPAN Securities Dealers' Association is to lower from 5,000 to 2,000 the number of shares in a newly-listed company that an investor can buy on the issue's first tor can buy on the issue's first trading day on the over-the-counter (OTC) market, AP-DJ reports from Tokyo. An association official said the new rule will be applied from today. The move is intended to limit the sharp surge in share prices for newly-listed issues that has newly-listed issues that has resulted from increasing participation by cash-rich institutional investors and cor-

porations, he said. The association controls the maximum number of shares to be traded on the first OTC trading day according to mar-ket conditions. It increased the number of shares that a single investor could buy to 5,000 in October 1990 in response to stock market weakness follow-

ing the Gulf crisis. Meiji Mutual Life Insurance
 has reached an agreement
 with Canadian Imperial Bank
 of Commerce (CIBC) of
 Toronto on establishing busi-

ness co-operation. Meiji Mutual and CIBC, Canada's second largest commer-cial bank, will exchange infor-mation and know-how on investment and loan operations. The two companies will also exchange personnel

Merrill reduces junk portfolio

MKRRILL Lynch has sharply reduced its junk bond portfo-lio, according to Mr William Schreyer, chairman. He was speaking at the firm's annual meeting. Merrill is "doing very well in junk bonds" and its inventory is at a very low level, he said, AP-DJ reports. One of Merrill's leading priorities has been to reduce its large portfolio of junk bonds while at the same time increasing its junk-related business in areas such as cor-

porate restructuring.
Mr Schreyer said Merrill. the largest brokerage in the US, did not anticipate another round of significant layoffs in

Securities chiefs split as deadline looms SENIOR officials of the largest stock markets in the European Community still have markedly different ambitions for a proposed system to support cross-border share trading, just one month before they are due

to reach agreement on the system's final form. Speaking in London yester day at a conference on the development of the European securities industries, officials from Germany, France and the UK seemed as far apart as ever on the future for securities trading in Europe. Yet at a meeting in Athens in a month's time, they and other EC exchanges hope to agree the development of Euroquote, a network which could form the basis for cross-border share

Mr Rudiger von Rosen, executive vice-chairman of the Federation of German Stock Exchanges, said that there is no demand in Germany for Euroquote to act as a pure information system - the planned first phase of the development. Instead, he said, "the obvious need remains for a European settlement sys-

Mr Jean-François Théodore, chairman and chief executive of the Paris Bourse, did not specifically address the ques-tion of Euroquote in his speech, but later said that the system was not a necessary part of cross-border share trading. Commercial information suppliers could dissemi-

CONFERENCE EUROPEAN **SECURITIES** MARKETS IN THE

nate information just as effectively, he said. Mr Peter Rawlins, chief executive of London's International Stock Exchange, said that to be useful, Euroquote should carry regulated company news -something that only two of the 12 EC exchanges could currently provide about compa-nies they listed. He added: "We are sceptical about the development of Rumoutote into any (as yet wholly undefined) kind of trading or settlement sys-tem . . . We must first decide what it is that Europe's mar-

kets need."
Mr Patrick Gifford, a director of Fleming Investment Man-agement, challenged many of the assumptions made by the exchanges when he said that, for an investor, the current fragmented European markets offered greater opportunities than would exist in a single, efficient, transparent market.

Ahead of next month's Athens meeting which aims to approve a pan-European stock market trading system, the views of industry leaders are polarised, reports Richard Waters.

Instead, he called for cheaper settlement costs and changes that would make the job of fund managers easier. These include a common settlement international switching easier. and more information from exchanges about corporate actions like the timing of dividend payments.
Differences also arose over

the regulation of cross-border share trading. The EC hopes by June to agree an Investment Services Directive to regulate securities business, but this has so far foundered on strong differences of principle.

Mr Théodore said that cross-border share trading would develop through co-operation between existing national markets, each of which would remain the main centre of liquidity in its own domestic shares. What was needed was high standards of transparency

and listing requirements on each market.

He defended the view that;
this should be extended to all a
equity markets, including: wholesale markets developed for professional investors, such as SEAQ International in Lonof price transparency, whatever the market they are

dealing on." he said.

Mr Rawlins, though, argueds, against imposing a common-level of price transparency. adding that such ideas could drive business away from drive it away from Europe alto-

Mr Geoffrey Fitchew, director general of the EC director ate for financial institutions and company law, laid out the terms of the EC's planned com-r. promise. He said that investors—, should be able to give a blanket authorisation to intermediaries to deal off-exchange on-their behalf, and that it should be left to member states to decide whether and when the details of transactions are published, provided they are all reported to a market.

authority.
Mr Jeffrey Knight, conference chairman and a special-adviser to the Federation of. Stock Exchanges in the EC, said Europe's various securi-ties markets would inevitably

grow closer.
The question is not whether markets will become integrated, but how," he said.

German bank to raise DM500m convertible

By Katharine Campbell in Frankfurt

issue of DM500m worth of convertible participating certif-

The certificates give investors a share of the profits, but do not carry voting rights. Under German banking law, they count as risk but not core capital, and under future EC guidelines will be classed as The bank is boosting its capi-

tal reserves after a year of rapid credit expansion in all areas, including in east The participating certificates are being offered, at a price yet

BAYERISCHE Hypotheken und Wechsel-Bank, the smaller of Bavaria's two leading banks, is increasing its capital by an warrants for one convertible participating certificate with a face value of DM1,000.

The certificates mature at the end of 2001 and pay a coupon of 9.25 per cent. Investors have the option to convert one certificate into 3 shares in the period June to December from 1992 to 1999.

• Spain's Banco Hispano Americano and Commerzbank of Germany have agreed to open a joint offshore banking operation in Gibraltar. The bank, to be called Hispano Commerzbank, will begin operations with Ptalbn in start-up capital

Norske Skog poised to launch convertible bond

By Karen Fossii in Oslo

NORWAY'S Norske Skog, one of Scandinavia's biggest pulp and paper producers, plans to issue a convertible bond in the range of NKr550m to NKr700m, with maturity on December 31,

The proposal will be made at the company's annual general meeting on May 14. The bond will be convertible into B

The issue is the last phase of a NKr6bn financing programme which was initiated in 1990 when a NKr500m convertible bond was launched.

Norske Skog said that the
new issue will be aimed at international capital markets and placed with a selected

number of investors.

To retain flexibility in fixing the terms, a framework for the The final proposal will cover the conversion premium coupon, subscription period

and payment date.

The placement is scheduled for the period between May 6 and May 15, if the convertible bond is approved at the annual general meeting.

 Topdanmark, the Danish-banking and insurance group, said its banking unit Aktivban. ken will take over Sydfyns Dis-contobank as part of its strategy of building a nationwide financial services network. Sydfyns' end-1990 balance sheet total was DKr1.1bn.

LONDON MARKET STATISTICS

RISES AND FALLS YESTERDAY

Same 28 12 932 424 57 86 25 British Funds Corporations, Dominion and Foreign Bonds, Industrials Financial and Properties. 186 86 21 1,573 11.55 862 53 86817 871.85 831.38 8.18 1105.97 1117.17 1128.79 1004.17 21.06 1384.40 1383.75 1387.15 1339.64 40.46 2406.41 2425.52 2445.18 2361.89 3.31 1822.94 1845.24 1847.32 1743.79 8.86 456.28 433.54 455.81 436.83 7.96 461.57 464.72 462.68 457.69 9.45 352.93 364.02 332.98 331.69 28.99 1524.45 1535.03 1544.74 1557.69 11.93 1468.74 1476.44 1479.94 1178.11 4.86 1795.25 1862.45 1888.58 1390.35 15.95 1206.73 1208.56 1208.79 100.29 14.42 2767.24 2795.06 2804.91 2213.04 LONDON RECENT ISSUES EQUITIES Agrint Latest 1991 Paid Rensec High Low Aberdeen Trust 10p ... Do. A Warrants 10p ... Do. A Warrants 10p ... Do. Cere Dir. Pri. 50p ... Do. Zere Dri. El. Sere Dri. El. Sere Pri. El. Seldon 10p ... SEJON 10p 1.8 5.7 13.1 14.42 2767.24 2795.06 2804.91 2213.04 20.72 356.34 3282.28 3293.05 2449.61 16.64 1355.87 1356.85 1362.15 1298.88 17.84 1504.40 1518.71 1521.09 0.00 11.00 679.01 679.41 677.01 555.70 2.37 921.31 928.88 930.30 772.71 3.08 525.10 526.99 537.78 464.26 9.64 1218.99 1228.01 1227.94 1093.89 8.36 1208.48 1214.00 1220.12 0.00 23.86 1291.02 1228.00 1220.12 0.00 12.84 1250.71 1252.73 1250.20 1535.83 25.52 2181.80 2200.82 2212.47 2154.31 0.00 1343.55 1190.74 1186.40 0.00 0.00 1449.83 1462.44 1466.31 1057.48 39.69 2463.92 2228.76 2532.58 1873.70 21.39 1897.79 1909.10 1972.01 1760.38 FIXED INTEREST STOCKS Clasing Price £ Amoud Paid op Restenc. Date High Low 17.25 828.49 838.11 837.60 750.28 21.93 925.71 940.19 942.56 793.76 41.64 1529.76 1560.92 1572.32 1268.28 20.23 688.62 692.36 682.70 635.44 20.10 1186.31 1188.11 1202.38 1055.67 4.47 427.90 429.26 429.50 437.29 4.21 1005.82 1004.01 1000.32 1095.43 4.41 291.38 292.15 290.70 306.25 100.40 100.32 1095.43 4.41 291.38 292.15 290.70 306.25 100.40 100.32 1095.43 4.41 291.38 292.15 290.70 306.25 100.40 100.32 1095.43 4.41 291.38 292.15 290.70 306.25 100.40 100.32 1095.43 4.41 291.38 292.15 290.70 306.25 100.40 100.32 100.32 100.40 100.32 100.3 100% 80p 100% 100% 1011 1039 1031 1031

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TRADITIONAL OPTIONS

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April 22 May 3 July 25 August 5

First Dealings
 Last Dealings
 Last Dealings
 Last Declarations
 For settlement A
For rate indications see

CARDIFF

The FT proposes to publish this survey on 13th May 1991.

It will be of particular interest to the 130,000 directors and managers who are regular FT reader. If you want to reach this important audience, Please call Clive Radford on 0,272 292565 fax 0,272, 225974 or

FT SURVEYS

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BONUS Although investment markets were weak in 1990,

New Business "The year was in many ways one of consolidation for the company following the significant new business growth of recent years. However, 1990 was not without its memorable features, with our new unit-linked annual premium

to record a further increase in our house purchase market share, which resulted from the tremendous support for our range of Scotlife Home Loan products. This has now won four awards,

in 1990 to establish improved levels in the standards of service we offered the policyholders and financial advisers. Whilst it is pleasing to report success on nearly every front, the drive to achieve higher levels of efficiency will continue as a prime feature of our efforts in the coming year."

Issued by the Scottish Life Assurance Company, Head Office, 19 St. Andrew Square, Edinburgh, EH2 1YE. Scottish Life is a Member of the Life Assurance and Unit Trust Regulatory Organisation.

Travis Perkins declines to £20.36m

By Andrew Taylor, Construction Correspondent

THE RECESSION in the UK housebuilding industry has caused pre-tax profits to fall for the second year in succession ag Travis Perkins, the builders' merchant and timber group. "Last year profits fell by agnost 38 per cent, from £32.8m to £20.36m. In the previous 12

months pre-tax profits fell by is per cent. Mr Tony Travis, chairman said: "The current year will be another difficult one for the construction industry. The first three months of this year, particularly January and Febrhary, were very poor. First-half profits, therefore, will be down sharply on those achieved in the corresponding

period last year.
"The downturn is such that is will be very difficult to catch it up during the rest of the year – even allowing for a recovery in the second half of

h.Pre-tax profits last year were induced by about £4m charged against bad debts: "Bad debts,

TAXABLE PROFITS of Henry Boot & Sons, the Sheffield-

based construction and prop-erty group, rose by 19 per cent

to £6.36m in 1990 to provide a rare profits advance in what was a very difficult year for

most construction groups. Turnover declined to

£131.03m (£186.13m), but earn-

ings rose 15 per cent to 76.1p (66.1p) per share. The company

proposed a final dividend of i8p to make a total of 25p. This

Mr Jamie Boot, managing director, said the group had a much lower exposure to resi-

dential and commercial prop-

following companies have notified dates and meetings to the Stock Exchange, meetings are usually held for the pur-of considering dividents, Official indica-are not available as to whether the onds are intering or finals and the sub-cors shown below are based mainly on mark liganishing.

compares with 21p in 1989.

Ďy Andre**w Tayio**ι

Boot bucks sector trend

with 19% rise to £6.4m

as a proportion of sales, were about three times higher than we would expect in a normal market," said Mr Travis.

Redundancy costs reduced profits by a further £1.5m. There was an exceptional charge of a similar amount to cover the final costs of integrating the Travis Arnold and Sandall Perkins businesses, merged in 1988.

There was a net reduction of about 400 staff last year, achieved through a combina-tion of natural wastage and redundancy. The group, on the other hand, raised about £3m from property sales.

Turnover fell by 3.6 per cent from £360.9m to £347.7m. Vol-

ume sales were down by about a tenth. Profits in the second six months fell by more than half to £6.9m. This compares with a 21 per cent fall to £13.5m in the first half.

The last quarter of 1990 was particularly gruelling, with bad debts and redundancy costs

erty markets than many con-struction companies which

have suffered as a result of falling demand in these markets.

The company, of which the Boot family owns just over 50

per cent, said the construction market had of late become

more difficult. It warned that it

was unlikely "that the past level of growth in earnings will be maintained in the foresee-

eet Invs, Edinburgh Inv Trust, PR, Fernell cs, London American Ventures Trust, CS, mac, Tyne Tees Television, Ward Group.

able future".

ing activity continued to decline," said Mr Travis. The group declared a final dividend of 5.5p making a total payment of 8p, the same as in 1989. Dividends were 1.7 times covered by earnings per share

• COMMENT

About three quarters of Travis Perkins' sales go to the housing market for repair, mainte nance and improvement, as well as new house building. It is therefore an ideal recovery stock as mortgage interest rates come down and confidence in the housing sector starts to pick up. The company has no debt and is well many aged — gross margins actually improved slightly last year in one of the most difficult peri-ods for construction sales. The problem is in gauging the tim-ing and likely extent of the recovery. Housebuilders have reported a rise in sales since interest rates began to fall in February. Much of this, how-

Pre-tax profits (£m)

Travis Perkins

1986 87 88 89 90 ever, will be stock and it will take time for a recovery to work through to building material sales. The company is right to be cautious. Profits this year could slip further to about £18m. This would put the group on a prospective p/e of 19 which looks expensive. Hold for the long term and buy

Boddington makes strong

millions of pounds of share-

mg demand in these markets. Boot has no borrowings.

At the end of 1989 Boot had cash of about 23m. This position is thought to have remained largely unchanged at the end of last year. holders' money.
In a document sent out to Devenish shareholders, containing details of its 127.7m hostile takeover bid, Boddington, the pubs, hotels and health-care group, accuses the Devenish board of wasting more than £80m on advertising new brands mar-keted under the Newquay Steam label.

steam later.

Seam an adverse effect on the com-pany's profitability.

It accuses Devenish of U-turns in its strategy in first buying wholesalers only to sell them later, and queries the value attributed in the company's accounts to the brew-

which still failed to address the fact that Boddington's hostile "substantially undervalues" the company.

Ricardo Intl expands

Advance Technology Design, a gas turbine consultancy, for

the number of its pubs "has falled to materialise". Mr Hubert Reid, managing director of Boddington, said: "Devenish's decision to

Its board is guilty of poor judgement and then

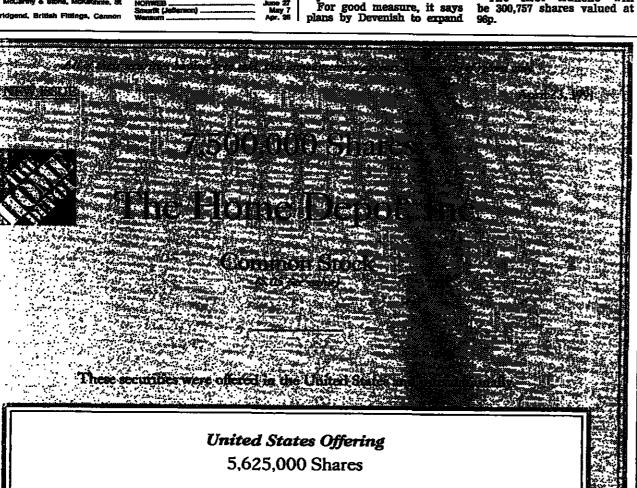
attack on Devenish board BODDINGTON yesterday launched a hlistering attack on Devenish, the West Country brewer, accusing it of wasting

invest in brewing and brands was a grave mistake. "It was also badly executed.

poorly carrying out those deci-A spokesman for Devenish denied the charges and said there was nothing substan-tially new in the document

Ricardo International is buying £550,000 payable in shares or

The first tranche will be 300,757 shares valued at



The First Boston Corporation

Inversed Associates, Inc.

Goldman, Sachs & Co. **Lehman Brothers**

Montgomery Securities The Robinson-Humphrey Company, Inc.

International Offering

1,875,000 Shares

Inversed Associates, Inc.

ABN AMRO DG BANK

Nomura International

Dresdner Bank Aktiongesolischaft Paribas Capital Markets Group

N M Rothschild & Sons Limited

Cazenove & Co.

Swiss Bank Corporation

Issue of up to £50,000,000

In accordance with the terms and conditions of the Notes, notice is bereby given that for the three mooth inserest period from (and including) 22nd April 1991 to (but excluding) 22nd July 1991, the Notes will carry an interest rate of 12.47917 per cent. per amum. The relevant interest payment date will be 22nd July 1991. The coupon amount per £1,000,000 Note will be £31,112.45 payable against surrender of Coupon No: 6.

Hambros Bank Limited Agent Bank

offer for **Coats** offshoot By Robert Gibbens

Reduced

in Montreal

AN INTERNATIONAL investor group has reduced its bid for Consoltex, the Montreal-based fabric maker, from C\$38 to C\$33 per share and Coats Viyella, which has owned 81 per cent of the Canadian company for the past decade, has said this was fair value and it would accept.

In February, Consoltex reported 1990 profits of C39m (£4.54m), or C33.14 per share, on sales of C3169m, up slightly from 1989. At that time the investor group was willing to pay C\$38 per share. Coats stood to collect to well over

However, in the first quarter However, in the first quarter of this year, Consoltex incurred losses of C\$596,000, or 20 casts per share (profits of C\$2.7m, or 95 cents per share). Sales dipped 25 per cent to C\$34m. Federal and Quebec sales taxes were applied to apparel for the first time on January 1, causing a deep decline in clothing sales and thus fabric sales.

Consoltex expects some

Consoltex expects some improvement in the rest of the year as interest rates come down and the economy picks

The old offer was withdrawn and "a revised investor group" made the new offer, subject to made the new offer, subject to
90 per cent acceptance, said
Coats and Consoltex. Details
will be malled early in May.
Consoltex would not reveal
the principals behind the
investor group.

Mrs Fields warns of loss as Gulf war hits sales By Clare Pearson

Shares in Mrs Fields cookie company yesterday slumped 4%p to 11p after warnings that it had fallen back into the red in the last financial year. In a brief statement, the USM-quoted company said its preliminary results for the year to the end of December 1990 would be published late next month and the company would show a net loss.

It is expected to blame television coverage of the Gulf war for keeping people at home and depressing sales of cookies on the high street.

The company had previously been scheduled to announce its results today, and the announcement dashed hopes that it would build on its modest return to profit in 1989. Last September, Mrs Fields reported lower net losses of \$2.63m (\$3.53m) for the first half, fuelling hopes that the full-year result could reach about \$3m (£1.75m) against

1989's \$1.53m.
After it floated on the USM in 1986, Mrs Fields acquired a notoriety for disappointing shareholders, most notably in 1988 when it clocked up a net

loss of \$18.9m.
Founders Mrs Debbi Fields and her husband stepped back from day-to-day management

Arncliffe shares suspended at 83p Arncliffe Holdings, the Leeds-based housebuilder, has

requested a temporary suspension of its shares, pending the conclusion of negotiations on a capital injection and a strengthening of the board, writes Michiyo Nakamoto. "We have been in negotia-tions for some time and they are now at an advanced stage," directors said. Once the negotiations are completed,

negotiations are completed, the group plans to announce both results for the year to October 31 and details of the proposed capital investment in the group. The shares were suspended at 83p.

In the half-year to April 30, Arncliffe suffered an 83 per cent plunge in profits to £148,000 (£365,000). Profits were hurt by a sharply higher interest charge of £1.09m (£593,000). The group said at the time that it was working to reduce borrowings as quickly as possible.

Turnover dropped 18 per

Turnover dropped 18 per cent to £7.52m (£9.18m) and the interim dividend was passed (2.25p). Rarnings per share were 1.94p (11.28p).

BRITANNIA BUILDING SOCIETY

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Board considering a number of options for future Institutions attempt to install new management at Budgens

By John Thornbill

A GROUP of institutional shareholders is attempting to remove Mr John Fletcher as chairman of Budgens and install a new management eam at the troubled grocery

IEP Securities. Electra Investment Trust, and Gartmore Investment Trust, which together hold 27 per cent of the shares, have put a proposal to the board "concerning the future direction of the com-

pany". This is understood to involve the appointment of three new directors including Mr John von Spreckelsen, and two associates, Mr Christian Williams and Mr Graham Rigby. Mr von Spreckelsen is cred-ited with having rejuvenated KAFU-Wasmund Handelsge-

sellschaft, a supermarket chain which is based in Bremen, Germany.

The group's proposal is said to be "under active consideration" by the Budgens' board although the company stated that it was also reviewing a

that it was also reviewing a number of other options for developing the business. In recent years, Budgens has

setting up a new distribution centre. Yesterday one analyst described the performance of the company as "utterly disastrous".

Earlier this year, the company announced a severe drop

suffered from high borrowings

and the disruption caused by

chairman and chief executive in 1985

in interim pre-tax profits from £4.7im to £505,000 and analysts suggested it might only make £1.5m in the full year. Budgens, formerly known as Barker & Dobson, runs a chain

of 95 neighbourhood grocery stores. It has faced stiff competition from Marks and Spencer and is seen as being under fur-ther threat as J Sainsbury and Tesco again express interest in developing their high street Mr Fletcher, who became chairman and chief executive of Budgens in 1985, failed to

with Wm Low, the Scottish-based supermarket chain, in This followed a highly ambi-

tious but ultimately abortive attempt to buy Dee Corporation for £2bn.

Budgens has recently strengthened its board through the appointment of Mr Derek Pretty as finance director in December 1989 and Mr Keith

Clarke as managing director in April 1990. Budgens' shares, which have fallen sharply during the past two years, closed 2p higher

Empire 'oui' to 125p cash bid

EMPIRE STORES Group, the mail order retailer, has recommended its shareholders to accept the 125p per share cash offer from Redoute Catalogue, part of La Redoute, the French catalogue retail group.

Mr Martin Mays-Smith, chairman of Empire, recom-mended the offer although the board believed it did "not fully

reflect the value of Empire". Empire claims a 7 per cent share of the UK mail order market. Its shares were unchanged yesterday at 127p.
The recommendation was not supported by Gecos, the Italian retail group which holds 24.2 per cent of Empire, has been a shareholder since 1984 and has two representa-tives on the board. It is taking

independent advice and will clarify it's position by May 1. It could remain a minority holder even if Redoute's offer succeeds, and if sufficient other holders did not accept, the listing might be kept.

Redoute said last night it

was pleased with the recom-mendation, but concerned about a very gloomy trading Cash call at Synapse as losses mount The anticipated recovery at Synapse Computer Services is taking longer to achieve, said Mr Michael Goodman, chair-

Mr Michael Goodman, chairman, as the company revealed losses up from £294,000 to £974,000 pre-tax in the six months to January 31.

At the same time the USM-quoted company launched a rights issue of 202m new ordinary charge at 2.02m new ordinary shares at 72p each on a 4-for-7 basis, to

statement" made by Empire as part of its recommendation, and the lack of a profit forecast for the financial year ending this weekend. The first closing date for Redoute's offer is tomorrow but Redoute has already prom-ised to extend this to May 8.

Redoute said from the start that its offer, launched in mid-March, would not be increased. This followed its purchase of a 12 per cent stake in Empire from Great Universal Stores, the retail, property and finance company, and a promise to GUS that the subsequent offer would be final.

Redoute already held almost 25 per cent of Empire when it bought the GUS stake, giving it 37.9 per cent. Mr Mays-Smith said Empire was recommending the offer,

which values the group at £49m, because trading had worsened since the group announced an interim loss of £951,000 in January. Sales had "held up less well than we had expected" he said.

have been particularly disap-

pointing". The group had also suffered a rise in bad debts. He said "as a result the group's results in the current year will fall short of those for which we had hoped at the time of my interim statement". Another reason for the recommendation was that the UK mail order industry was

being shaken up following the sale of Grattan to Otto Versand, the German retailer, and the possible sale by Little woods of its mail order side. This was likely to make the market more competitive. Also the performance of Empire's shares, if it remained independent, was likely to be affected by Redoute's holding. The recommendation to

shareholders also said they should accept "unless a higher offer is announced". However, analysts said the chances of a rival bid were slim given Redoute's stake. If a rival bid-der had been interested it would probably have shown its hand by now Mr Mays-Smith said the group was not in discussions with any other bidder.

l				_	
	Current payment	Date of payment	Corres - ponding dividend	Total for year	Tota las yea
Boot (Henry)fin	18	May 24	15	25	21
Burnfieldfin	3.85	May 28	3.85	5.5	5.5
Clydesdale lavInt	1	June 10	1		3.4
How Gpfin	2.25	July 1	2.25	3.6	3.6
Kingston OR/Gasfin	1	July 1	0.6875	1.56	1.66
Polymark Intifin	1	May 29	nii	1	nil
Ramco Olifin	2	_	nil	ż	nii
Ratnersfin	7.6	July 29	7.5	102	9.5
Travis Perkinsfin	5.5	duly 1	5.5	.04	9.0

Dividends shown pence per share net except where otherwise stated. *Equivalent after allowing for scrip Issue. *On capital increased by rights and/or acquisition issues. *Capital increased on conversion of preference shares. *SUSM stock. *AFor 18 months. *For 11 months.

DIVIDENDS ANNOUNCED

Extracts from the Chairman's Statement in the 1990 Annual Report

J. R. Glen, C.A., Chairman

NVESTMENT "Since 1988 we have maintained a defensive stance towards both UK equity and fixed interest markets. The collapse in share prices in the wake of the Gulf Crisis was seen as an opportunity to rebuild exposure to UK equities in the closing months of the year, and indeed the market has rebounded encouragingly. However, a degree of caution continues to be warranted."

the overall yield on our funds has enabled us to maintain our reversionary bonus rates."

business rising by more than one-third to £20.7m. In what was a depressed residential property market, it is pleasing

including Best Overall Mortgage Lender' and a first for Service

CHAIRMAN'S STATEMENT

Administration "A major initiative was undertaken

Scottish Life (THE LIFE TO LEAD , 4011CE 10 to

MINE BANK OF

Cronite puts two

problem offshoots

ons for future

Territory .

ANNOUNCED

7

udgens

May Way Say

into receivership By Clare Pearson CRONITE GROUP,

CRONITE GROUP, the Birmingham-based industrial holding company, said yesterday that it was putting into receivership two of its subsidiaries where irregularities, including misappropriation including misappropriation,

had been discovered.

The shares, suspended at 12p on April 5, rose to 23p when were restored to listing after the announcement

The bigger of the two subsidiaries is Cronite Alloys, which recycles stainless steel. The other is Abtex, which manufac-tures hand portable fire extin-

unes name portable fire extinguishers.

The company said it also intended to close or dispose of two other businesses, Hy-Tech, a machining company, and North American Cronite, a sales organisation.

Accounts for the five months to end-February, also published yesterday, showed total losses for the four companies, including closure costs, of £3.05m. At the pre-tax inc, the company incurred a second sec company incurred a £2.18m loss. That compared with a £1.22m profit for the year to end-September.

Cronite said it had discovered that Alloys had suffered a shortfall in expected income amounting to about £400,000 while management accounts had overstated the value of certain stock by £500,000. At Abtex, continuing trading diffi-culties had been exacerbated

by misappropriation of stock. Concluding that continua-tion of losses at these two sub-

tainable effect on cash require-ments, Cronite had requested Barclays, its bank, to appoint receivers.

Mr James Lindsay-German, chief executive, said he could on the carrier on whether the irregularities would give rise to any legal action. The decision follows investigations by Arthur Anderson, the accoun-

Cronite said Barclays had confirmed the availability of facilities for the remainder of the year, subject to an £8.2m maximum, and with this arranged it hoped it would be able to develop its profitable

But there will be no interim dividend owing to a shortfall in distributable reserves.

At the trading level, five-monthly losses at discontinued businesses were £1.87m (against £70,000 for the 12 month period) while profits at the rest of the group were £262,000 (£2.4m). Net assets per share were 31.1p (48.2p). The deterioration follows a sharp fall in profitability dur-ing the previous year when pre-tax profits of £1.2m were about half their 1989 level.

Proudfoot sale

Ca Clydesdale Bank

HOUSE

MORTGAGE

RATE

Clydesdale Bank PLC

announces that its House

Mortgage Rate is being

reduced to 12.85% per annum.

For new loans the rate will apply

from 22nd April 1991 and for

existing loans the rate will be

effective from 1st May 1991.

Alexander Proudfoot has sold its BAS subsidiary group of debt collection and in-house legal recovery services for £5.5m to Matahari 388, which is tion of losses at these two sub-sidiaries would have an unsus-Foreign & Colonial Ventures.

UK COMPANY NEWS

BP nightmare haunts sale of stake in BT offer nearly By Roland Rudd

three times

Greencore

subscribed

THE OFFER for sale of

Greencore, the formerly state-owned Irish Sugar group which is being floated in Lon-don and Dublin, has been about 2.8 times subscribed. Yesterday the company said applications had been received for 111.8m shares, against the 39.46m available. The offer unice was 122.3h

price was If2.30. Stripping out shares for

Stripping out shares for which firm undertakings had been received and which have been fully allotted, and those laid aside for employees and beet growers, 15.52m shares were available generally. These attracted 87.86m applications and they are being scaled down as follows:

Applications for 100 to 299 shares will result in the alloca-

Applications for 100 to 299 shares will result in the allocation of 100 shares; for 300-599, 200; for 600-399, 300; for 1,000 to 2,499, 400; for 2,500 to 4,999, 700; for 5,000 to 9,999, 1,250; for 10,000 to 15,999, 2,000.

Applications above 16,000 shares will receive one seventh of the amount requested.

of the amount requested.

The sale, which marks the

first big privatisation of an Irish state concern, is of 55 per cent of the shares. Dealings

are expected to commence on Friday

By Clare Pearson

AS MINISTERS finalise their proposals for the sale of part of the government's 48.6 per cent stake in British Telecom, the 1987 flotation of British Petroleum is weighing heavily on their minds.

BP was the last major secondary sale, valued at \$7.5hm, including a £1.5bm rights issue, and proved something of a nightmare. Although considered a one-off because of the collapse in the stock market government officials believe there is much to be learnt from the issue.

The shares were originally offered at a 20p discount to the 350p market price. But when the world's markets crashed in late October potential investors were looking at a 70p loss. No-one is expecting a collapse in the market this year, however, even the smallest of movements between pricing the BT sale and trading in the new shares could have a significant effect on the issue.

A fall in the market wipes out potential investors' dis-counts while a rise leaves the Treasury open to Labour accusations of a giveaway. Government advisers believe

the key lesson from the BP sale is that the time between pric-ing and trading was too long. Government sales normally take three weeks, a week to print and send the prospectus after pricing is announced, a week for investors to receive and fill in the form and a final seven days for allocation and

if the prospectus could be sent out without the price officials believe they could shave off seven days. This was suggested in the sale of the regional electricity companies but rejected on the grounds that two weeks can greate se that two weeks can create as much nervousness as three. For the BT sale to be made BP-proof and immune from market movements the gap between the pricing and trad-ing needs to cut to less than two weeks. Shareholders need

a guarantee that their dis-counts will not be wiped out by ovements in the market.
If this can be achieved Government advisers believe they may be able to do without subunderwriters. (Primary under-writers were dispensed with in the last privatisation).

There are two other main

lessons to be learnt from the

The first is that ringfencing allocations to different markets is counter-productive. In 1987 BP wanted more shares to be

sold abroad. Government officials now believe it was a mistake not to do so since it would have generated greater competition

between the institutions.

The Treasury is expected to introduce more flexibility into the BT sale, allowing more than half of the shares to be

sold in foreign markets, creating fierce competition between institutions, thereby maximis-

ing the price.
The second lesson is that while advertising can work wonders in druming up interest in a issue — more than 6m people registered for the BP shares — it does not mean that: those registered will buy shares. A little more than 200,000 of the 6m parted with

their money. As a result much of the funds earmarked for advertising may end up paying banks and building societies bigger commissions to trade BT shares, making it easier for the small investors to take part in

Clydesdale Inv net assets fall 10%

The net asset value per share of The Clydesdale Investment Trust was 95p at the half-year ended March 31 1991, a fall of 10 per cent from 106.13p at the same time last year. Total income for the period fell from £369,000 to £295,000, and after interest and expenses

of £103,000 (£111,000) pre-tax revenue was left at £192,000 (\$258,000).

The interim dividend is

Restructured Burnfield turns in £1.41m

BURNFIELD, a manufacturer of electric surface heating systems, returned profits of £1.41m pre-tax and exceptional tems for the 11 months to end-

For the previous 12 months the group, which has been restructured and now operates under a new management team, achieved pre-tax profits

Turnover for the period under review totalled

£15.31m (£17.08m). Exceptional items accounted for £701,000 (nil) and tax for 2542,000 (2868,000). Extraordinary provisions of £3.06m nary provisions of £3.05m reflected reorganisation costs and a deferred tax write-off.

Excluding exceptional items, earnings per share emerged at 7.5p (10.8p) basic or at 7p (9.5p) fully diluted.

An unchanged final dividend of 3.85p makes a same-again 5.5p total.

Exchange rate movement hits Kingston Oil & Gas

IN ITS first set of results to be reported in sterling, Kingston Oil & Gas, the production and development group, made £608,624 in 1990, compared with £720,673 in the 18 months to December 31 1989. Kingston's directors maintained that the conversion

from dollars to pounds was adversely affected by exchange rate movements over the

Turnover rose to £3.43m

operating profits were down at £583,702 (£699,286). Earnings worked through at 4.86p per share, against 7.07p, and the final dividend is a proposed 1p, to make 1.56p for the year. The total pay-out in the 18-month period was 1.66p.

Last August Kingston bought Orcol Fuels, a waste oil reclamation bushes, for \$4.5m, providing the company

reclamation business, for unchanged at 1p, and comes £4.5m, providing the company with its first UK earnings base. from 1.39p to 1.07p.

CHAIRMAN'S STATEMENT

1990 for the UK insurance market was the worst year in this century. In January and February the country was hit by very strong gales causing structural damage from the wind, the breaching of sea walls, flooding and consequential loss from the English Channel as far north as Scotland.

For the Group, this involved more than half-amillion claims and underwriting losses of almost £200m after a reinsurance recovery of £110m. In the summer many weeks of hot dry weather for the second year running produced a spate of subsidence claims which cost £146m, or more than double the losses of 1989. Natural calamities, which cost altogether over £410m, came at a time of severe economic recession when the market, after several reasonably good years, had entered a downward turn in the cycle, aggravated in the UK by very high interest rates.

While the climatologists may argue over differing prognoses for the development of weather patterns, there can be no doubt there will have to be further premium increases in commercial, household and motor business. In marine and aviation, and in several liability classes, rates do not match the risks covered. The one satisfactory feature of the year at home was the continued growth of our life business which produced record profits for the shareholders.

The northern part of continental Europe did not escape the turbulent winter and underwriting losses were widespread there. Losses were also considerable in Australia where competition is tough. On the other hand, the United States of America, where our business is managed by Chubb, produced very satisfactory results.

With this background of almost unrelieved gloom, I am sorry to have to report to shareholders a substantial loss amounting to no less than £181m. As I have said before, it is in the hardest times that policyholders and owners of shares in the Group can appreciate our strength in depth, which is unapproached by that of our competitors. Our solvency margin at the end of the year was still 81% and has since grown.

As part of our efforts to widen the base of our activities, this year has seen the Group's shareholding in the rapidly growing Swinton Group increased to 75%, while last autumn Sun Alliance (with nine other British insurance companies) formed British Aviation Insurance Group Limited. Satisfactory progress in obtaining continental European business is being made in our joint venture with Lloyd's of London launched under the name "Eurosure", and we are pleased with the development of our co-operation in the UK and Japan with Taisho.

For many years Life Assurance Premium Relief

was a major inducement to long-term saving, from which the life companies benefitted. This relief was withdrawn for new policies in 1984. In the years that followed, several new investment and savings schemes have been promoted by other institutions, based upon special tax concessions devised by the Government which have been quite complicated and do not always achieve the desired ends. They have served mainly to divert existing savings elsewhere, and it is time that the Government gave more serious thought to a coherent tax strategy which encourages long-term saving in a form that is simple to understand and equitable to customers and the institutions which serve them.

A year away from 1992, in the wider European scene, we still have disadvantages. Life companies in the UK bear a higher tax burden. Much more serious is the ability of many continental insurers, denied to us, to strengthen themselves to meet the exceptional losses of years such as 1990 by setting aside tax-deductible catastrophe equalisation reserves in more prosperous times. If UK companies were to enjoy an equivalent relief there might also be a reduction in the need to purchase reinsurance from foreign reinsurers. Sadly the Budget increase

in VAT will lead directly to an increase in the cost of providing insurance, particularly in the personal sector. Following the escalation in subsidence claims late last year the added VAT burden can only strengthen the case for some further increase in household insurance rates, particularly for properties with subsidence exposure.

The Directors recommend a final dividend for 1990 of 9p per share, making a total dividend for the year

Conclusion

If 1990 was a hard year for the Company, it produced extraordinary pressures for our staff and especially people dealing with claims in unparalleled numbers, and shareholders and policyholders alike can be proud of the way in which they met the challenge, and grateful to them for their efforts.

Our aim in the coming year will continue to be to pursue sound underwriting practices rather than to seek market share at any price, and to bear down on our operating expenses. I believe we are well placed to make the most of the recovery in the market place which is beginning, however haltingly, to appear.

Henry Boot PRELIMINARY ANNOUNCEMENT OF RESULTS FOR THE YEAR ENDED 31 DECEMBER 1990

	1990	1989
Turnover	£131.0m	£136.1m
Profit before tax	£6.4m	£5.4m
Earnings per share	76.1p	66.1p
Dividends per share	25.0p	21.0p
Net assets ner share	£7.15	£5.97

The 1990 Report and Accounts are to be posted to Shareholders on 2 May 1991. Copies may be obtained from the Company Secretary:

HENRY BOOT & SONS PLC Banner Cross Hall Sheffield S119PD Telephone: 0742 555444

CONSTRUCTION, HOUSING, PLANT, PROPERTY DEVELOPMENT



NOTICE TO STOCKHOLDERS ON THE BANK OF ENGLAND REGISTER

As from 1 May 1991, the Registrar's Department of the Bank of England will be located in Gloucester at:

> Registrar's Department Bank of England Southgate House Southgate Street Gloucester GL1 1UW Telephone: (0452) 398080

The audited Group results for 1990 are as follows: 1989 Premium income -2,512.7 2,475.3 General insurance 861.2 810.6 Long-term insurance 3,373.9 3,285.9 Profit and loss account (550.8)(63.7)General insurance underwriting result 40.5 Long-term insurance profits 47.7 322.2 341.8 Investment and other income (180.9)318.6 Profit/(loss) before taxation 90.9 (82.5)Taxation 227.7 (98.4)Profit/(loss) after taxation 7.8 12.3 Minority interests Profit/(loss) attributable to shareholders (106.2)215.4 111.1 99.0 (217.3)116.4 Retained profits transfer 2,936.5 2,033.6 Share capital and reserves (13.4p)27.3p Earnings/(loss) per share 12.5p 14.0p Dividend per share The above statement is a summary of the year's results and does not constitute the company's statutory accounts. Copies of the Annual

Report and Accounts, including an unqualified Auditors' Report, were posted to shareholders on 22nd April 1991 and will be delivered to the Registrar of Companies after the Annual General Meeting to be held at 12 noon on 15th May 1991 at the Registered Office. If you are not a shareholder and would like a copy please write to the Company Secretary at the address shown below.

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Write Box No: H8463 Financial Times,

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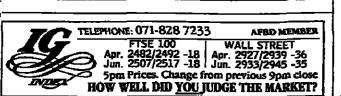
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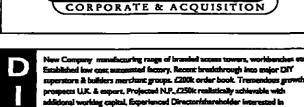
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BUSINESSES FOR SALE

POLYMARK International, the industrial laundry equipment and technographics group, is returning to the dividend list after an absence of 10 years as "medium-term prospects are sufficiently encouraging". Fully diluted earnings per

share benefited from a low tax charge and moved ahead to 5.07p in 1990, against 4.49p. The proposed dividend is 1p. Pre-tax profit, however, fell from £2.0im to £1.5im in the vear. That reflected a substantial reduction in operating income from discontinued activities of £421,000 (£2.51m), which was offset somewhat by

A SOUTH OF ENGLAND

FAMILY

ints. Up to date figures available son for setting periners retiring.

Write to Box H8461, Pinancial Times One Southwark Bridge, London SE1 9HL

ITALY: ENGLISH LANGUAGE SCHOOLS FOR SALE OUTSTANDING opportunity to ex the booming language business. COMPANY & PRIVATE CLIENTS.

£594,000 and interest credit of £442,000 (charge of £785,000). Mr Len Weaver, chairman, said the laundry division held its profit at £352,000 after reorganisation costs of £42,000. In technographics, a programme to improve productivity and enhance margins led to a turn-round from a loss of £114,000 to

profit of £242,000. He said much was done to create a more stable and profitsis for the continuing operations.

Below the line there was an extraordinary profit of £2.92m. being the final dividend from Polymark France and surplus an improvement in continuing on the sale of the French divioperations from £237,000 to

ROOTH WHITE North Kent Timber & Dem

DPA, established over 10 years. Haberdashery, old established business in Maidstone town con

In continued expension. UNLIMITED POTENTIAL. Strong cash flow. NETT PROFIT CIRCA £65,000 pounds p.n. Write Box H8466, Financial Times, One Southwark Bridge, London SEI 9HL Smail, highly profitable company. Activities - waste disposal, engineering paint and chemicals Only blue chip clients. 100K turnover. Established 1984.

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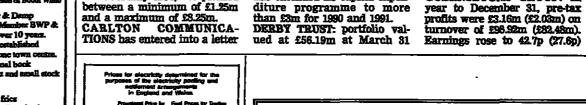
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UK COMPANY NEWS

Ramco rises to £1.1m and New EFM seals Soviet joint venture

RAMCO OIL Services, which provides tubes to the North Sea oil industry, reported pretax profits of £1.13m for 1990, compared with £942,000 previ-

The heavy burden of maintenance currently underway in the North Sea, which requires the shutdown of installations, kept turnover static at \$4.78m, but Ramco is paying an annual dividend of 2p — its first for five years. Earnings rose 0.1p

to 3.96p.
Mr Stephen Remp, chairman,
Mr Stephen Remp for a boost said he was looking for a boost to turnover next year when extensive North Sea mainte-nance work would be complete. At the beginning of this year, Ramco set up a joint-ven-ture operation to import oil pumps from the Soviet Union in a bid to capture 10 per cent of the \$500m (£292m) western market for electric submersible

market the pumps in the west and two Soviet directors sit on The first shipment of pumps is due to arrive in June. In an effort to break into the market, Mr Remp said the company would try to get round any reluctance it encounters

Polymark prospects

justify 1p dividend

Alnas, the Soviet company which makes the pumps, has taken a 50 per cent stake in the Aberdeen-based venture to



Stephen Remp: guarantees to replace failed pumps

among western firms by offering generous guarantees to replace any pump which fails in its first year of operation. Alnas started making the electric pumps 12 years ago in a bid to reduce the dependence of the Soviet oil industry on imported equipment. Its manufacturing facilities were set up

using western technology to

make a Soviet-designed pump. Mr Remp said the high qual-

ity of the pumps meant that they could last up to 800 days

would have to offer some price advantages to make them attractive to western buyers. Flexible arrangements would also be offered on hire or hirepurchase and giving companies the chance to have the pumps on a trial basis. Alnas is carrying the cost of holding stock by supplying pumps and taking the payment when they are sold.

ARCADIAN INTERNATIONAL

has entered into its first devel-

opment in Spain as part of a

consortium acquiring land at

hotel, and golf and country

club resort with 300 luxury

has paid £978,000 for 10 per cent of the capital of Zaudin

Golf. It has also sold a Glasgow

ASD has agreed to sell 49 per cent of Welbeck Steel Service

Centre to Sollac, a subsidiary of Usinor Sacilor, and to sell

land and related assets to Wel-

ASPEN COMMUNICATIONS

has acquired Ravensdale Film

and Television, a post produc-

tion television editing and

BASS: Recent rights isue

accepted in respect of 71.3m

shares (89.6 per cent). BIWATER has bought Spec-

trascan, a specialist informa-

tion technology business. BODY SHOP has acquired Cos-

Tec, which supplies some 50

per cent of group's Colourings

cosmetic range, for an initial £560,000 cash. Further pay-

ments, dependent on Cos-Tec profits in the seven years from

and-February 1994, are pitched

graphics paintbox facility.

office block for £1.45m.

El Zaudin, Seville, to build a

while western pumps will last

200-600 days. Nevertheless, he said he thought the venture

trust comes to market

By Philip Coggan, Personal Finance Editor

THE STOCK market's current enthusiasm for split capital investment trusts continues with the £15m flotation of EFM Income Trust.

There are two classes of shares in the trust, managed by Edinburgh Fund Managers. Zero dividend preference shares, with a par value of 25p, are being issued at 35p each. The trust will repay zero holders at 95p per share in the year 2000, a compound growth rate of 11.75 per cent.

trust will be able to do so, provided net asset value does not fall between now and 2000. The ordinary shares, issued at 65p apiece, will be entitled to all the income. EFM expects the yield on the shares to be above that on the FT-A All-Share index. Net assets of the trust will need to grow at 6 per cent per annum compound for the shares to be repaid at

Although repayment at that level is not guaranteed, the

The trust will invest in the UK, with about 80 per cent in equities and the rest in con-vertibles, bonds and cash. **Allied Provincial Securities** is underwriting and sponsor a placing of 15m of each class of share. Dealings are expected

the issue price in 2000.

to start on April 29.

How Group declines 19% and warns of bigger fall this year

Midlands-based building services contractor, warned that profits were likely to be much lower this year as the trading environment remained diffi-

Mr Peter How, chairman, said: 'In a recession the higger companies and the smaller companies come out better and it's the people in the middle who get squeezed. But we're not ultra dispirited." The group made its forecast

decline, from £5.18m to £4.21m. in pre-tax profits for

as it reported a 19 per cent

However, the 1989 figure included \$1.15m from investment disposals. A fall in margins had put pressure on profitability, Mr How said. Margins were down about 1 per cent on order book

Turnover rose 6 per cent to £236.58m (£222.83m) while orders overall had fallen about 15 per cent.
The group was particularly hurt by a 20 per cent fall in the engineering division's order books since that accounted for a large proportion of its businesses. Costs associated with

delayed orders were a main

factor, Mr How said.

On the other hand, the distribution division, which supplies refrigeration and air conditioning machinery, saw its order book climb, helped by the fact that its business was outside the construction industry.

Steps had been taken to try to maintain profit margins. tighten credit controls and cut costs through staff reductions. Recent bids were on very slim profit margins so that the group has had to be extremely selective in what it tendered for, Mr How said. It still had a net cash position.

Earnings per share were 5.94p (8.32p) and an unchanged final dividend of 2.25p is recommended, holding the total at

ep. In order to bring more accountability to the organisa-tion, the decision-making and managerial functions have

been split.

A main board will be responsible for planning and monitoring performance, and a group executive board will be responsible for implementing policies and overseeing the management of divisions.

Mr David Summerfield has taken over as chief executive from Mr Arthur Hogarth, who is retiring as managing direc-

COMPANY NEWS IN BRIEF

of intent to acquire substantially all the assets and certain liabilities of Chyron Corpora-tion of Melville, New York, and Santa Clara, California. Its most important products are characters and graphics generators and electronic editing CH INDUSTRIALS: The receiver has agreed to sell the Gripperrods International sub-

sidiary as a going concern together with its wholly owned subsidiary Carpet Systems, to Boldfact. CRAY ELECTRONICS has sold W&J Tod, a composite material engineer, for £1.7m to a man-agement buy-out. 31 provided backing with film of equity and loan capital.

(GODFREY) has DAVIS acquired Presco (Holdings) for an initial £3.75m cash. A further £3.15m by way of variable rate loan notes may become payable dependent on profits to December 31 1993. Presco makes and rents relocatable steel buildings and will be incorporated into Elliott Group, Davis' site services divi-

DAWSON INTERNATIONAL

subsidiary, Pringle of Scotland, has extended its capital expen-

diture programme to more

than £3m for 1990 and 1991.

(£48.66m at December 31). Net asset value of the capital shares was 396p (340p). Figures for quarter to March 31 were calculated after taking into account of the issue of 38,285 capital shares with effect from March 31. With immediate effect, company will discon-tinue publishing the March 31 and September 30 net asset val-

EUROMONEY PUBLICATIONS

has acquired 80 per cent of PREP Institute of America, which trades as Amembal Halliday Isom and provides education/consulting and publication services to the lessing indus-try, for up to \$1.7m (£950,000). EXPEDIER has sold CCI, a clay pigeon maker, to Meadowbell, a new company formed for the purpose, for about £1.65m including repayment of intercompany loans.
FOBEL INTERNATIONAL: new management has found

that net assets are likely to be

less than 50 per cent of capital

of £1.78m. Accordingly, meet-

ing called for May 7 to consider

position. Accounts for 1990 will be despatched next month with

etailed proposals of reorgani-GUERNSEYGAS GROUP: in year to December 31, pre-tax profits were £3.16m (£2.03m) on and the gross dividend was 22.5p (20p), after a 13.5p final. JLI GROUP has bought Lang-wood (Prepared Vegetables) for £721,000 cash, with a poss further maximum payment of £875,000. In 1990 Langwood incurred £205,000 loss on turnover of £4.8m. MAXIPRINT: The agreement to acquire 96 per cent of Decisionware has been altered. It

will now acquire all the shares

of Decisionware and will pay £102,000 on completion. Further consideration - up to £1.6m - depends on profits. McINERNEY PROPERTIES has sold its 85 per cent bolding in McInerney Contracting to Mr GT Pierse and others for £4m. Mr Pierse is managing director and holds the other 15 per cent of the shares. The disposal improves liquidity and reduces group future working capital

OSSORY ESTATES: In its open

offer to shareholders, 60.57m

new ordinary shares, or 29,29

per cent, have been applied for,

with the balance being sub-

scribed by the conditional pla-PALMA GROUP subsidiary. Clothkits, has sold its trading name and associated trade marks, together with the customer list of its mail order hitgines

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£650,000 cash.

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FT LAW REPORTS

Gas staff to get compensation for retirement inequality

FOSTER AND OTHERS V BRITISH GAS PLC House of Lords (Lord Keith, Lord Templeman, Lord Ackner and Lord Jauncey): April 18 1991

BRITISH GAS is a state controlled statutory body with special monopoly powers for the provision of public services and accordingly, though it is a commercial enterprise, its employees, like public services amployees, like public services amployees. tor employees, can rely directly on the European Com-munity equal treatment Direc-tive when complaining of a discriminatory retirement pol-icy operating before UK enact-ment of equality legislation.

The House of Lords so held when allowing an appeal by Mrs M Foster and five other female employees of British Gas plc (formerly the British Gas Corporation), from a Court of Appeal decision that they were not in a position to seek compensation against British Gas for discrimination on Gas for discrimination on grounds of sex.

LORD TEMPLEMAN said that article 5 of the EC equal treat-ment Directive of February 9 1976, provided that member states of the EC should apply the principle of equal treat-ment to working conditions, so that "men and women shall be guaranteed the same conditions without discrimination on grounds of sex".

The UK took the view that the Directive did not render unlawful a rule that men and women must retire at pension-able age, even if that meant that women must retire at 60 whereas men need not retire

In Marshall [1986] QB 401 the European Court of Justice ruled that a general policy of retiring women when they reached pensionable age at 60 and men when they reached pensionable age at 60 and men when they reached and men when they reached pensionable age at 65, was an infringement of the equal treatment Directive.

The Court reiterated that a member state which had not adopted measures to give effect to the Directive "may not plead as against individuals, its own failure to perform the obliga-tions which the Directive entails".

It roled that where a person involved in legal proceedings was able to rely on a Directive as against the state, he might do so regardless of the capacity in which the state was acting, whether employer or public authority.
It said, "In either case it is

sary to prevent the state from taking advantage of its own failure to comply with Community law."

As a result of Marshall section 2 of the Sex Discrimination 1

tion Act 1986, which came into force on November 7 1987, ren-

dered unlawful any discrimina-

ment age, so that the anomaly between employees in the public sector who could rely on the equal treatment Directive, and employees in the private sector who could not, was eliminated.

The position remained, however, that a woman in the public sector who was discrimi-nated against by retirement between February 9 1976 and November 7 1987, might be able to obtain compensation for ch of the Directive. British Gas had a policy that women should retire at 60 and

It was clear that it infringed the Directive. The appellant employees were compulsorily retired between December 27 1985 and July 22 1986.
They claimed compensation for unlawful discrimination.

The House of Lords referred to the European Court the question whether British Gas was a body of such a type that the appellants were entitled to rely directly on the Directive. The Court gave its ruling on July 12 1990.

By paragraph 22 it said that article 5 (1) of the Directive might be relied on in a claim for damages against "a body whatever its legal form which has been made responsible pursuant to a measure adopted by the state, for providing a public service under the con-trol of the state and has for that purpose special powers

ble in relations between indi-

Accordingly, the question for the House was whether British Gas was such a body.

By the 1972 Gas Act, replacing the 1965 Act and repealed by the 1986 Act, the British Gas Corporation was estab-lished as a body corporate.

The secretary of state was authorised to make regulations with regard to the appoint-ment, tenure and vacation of office by Corporation members. Section 2 provided that it was the Corporation's duty to develop and maintain an effi-cient and co-ordinated system of gas supply for Great Britain. Thus British Gas was a body which was made responsible pursuant to a measure adopted by the state, for providing a

public service.

By section 4 the Corporation was directed to report to the minister, who was authorised to give it appropriate directions for securing its efficient management. nanagement.

By section 7 he was author-

ised to give it general direc-tions as to the exercise and performance of its functions in

relation to matters affecting national interest.

By section 8 it was ordered to report annually to the minis-ter on the exercise and performance of its functions, policy and programmes.

By section 29 of the 1972 Act,

tion by any person against a beyond those which result "no person other than the Corwonan in relation to retire-from the normal rules application shall...supply gas to poration shall ... supply gas to any premises except with the consent of the Corporation".

That section conferred on British Gas "special powers beyond those which result from the normal duties applicable in relations between indi-

Accordingly, British Gas was a body which was made responsible pursuant to a measure adopted by the state for providing a public service under the control of the state and had, for that purpose, spe-cial powers beyond those which resulted from the normal rules applicable in relations between individuals British Gas could therefore

not take advantage of the state's failure to comply with the equal treatment Directive. The appellants' complaints of unlawful discrimination were dismissed by the industrial tribunal and the Court of Appeal on the ground that, for the purposes of the Directive, British Gas was a private indi-

vidual against whom the Direc-tive could not be enforced. Before the European Court and before the House, British Gas repeated the arguments which had found favour in the

It submitted it was a statutory corporation engaged in commercial activities; it did not perform any of the tradi-tional functions of the state; and it was not the agent of the

It argued that the European Court could not have intended to made the Directive enforceable against a commercial con-

Those submissions were irrelevant to the tests laid down in the Court's ruling. The sole question were whether British Gas, pursuant to a measure adopted by the

state, provided a public service under the control of the state, and exercised special powers.

British Gas admitted that pursuant to the 1972 Act it pro-vided a public service in the supply of gas for citizens gen-

However, itsubmitted that the secretary of state did not possess the control contemplated by the Court because it had wide powers in the performance of its functions. It submitted that monopoly

in the supply of gas was not a "special power" contemplated by the Court, and that the Court in its ruling had not clearly provided that national-ised industries carrying out commercial functions were to be regarded as organs of the

The principle laid down by the European Court was that the state must not be allowed to take advantage of its own failure to comply with EC law.
British Gas's policy which involved discrimination against women in breach of the Directive, was no doubt

thought to be in its commercial interests.

The advantages of that policy would accrue indirectly to the state which provided, through British Gas, a supply of gas for citizens generally and was entitled to surplus

if British Gas were allowed to escape the consequences of an admitted breach of the Directive, the state would be taking advantage of its own failure to comply with EC law. In those circumstances there was no justification for a narmw or strained construction of the Court's ruling.

Applying the words of the ruling, the 1972 Act created a ruing, the 1972 Act created a body which provided a public service to citizens generally under the control of the state, which could dictate its policies and retain its surplus revenue. British Gas had a special monopoly power created by the legislature. It was therefore a body against which the Direc-

tive might be enforced.

The appeal was allowed. The proceedings were restored to the industrial tribunal to

assess compensation.
Their Lordships agreed. For the appellant employees: James Goudie QC and John Cavanagh (Bruce Piper & Co). For British Gas: Michael Beloff QC and Elizabeth Slade (CEH Twiss, British Gas solicitor).

Rachel Davies



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FINANCIAL TIMES



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ly David Gardner in Luxembourg

'HE European Commission xpects the EC farm budget to un out of money before the nd of the year, if the commuuty's agriculture ministers ontinue to fail to agree to stay vithin the mandatory ceiling, r "guideline", on farm price

Brussels is understood to ave calculated that the first ash shortages in the Common gricultural Policy will appear around October, if ministers such the tangled debate over his year's price package into

Such a delay looked altoether likely last night, as the ouncil of agriculture minis-ers began their third attempt ince February to fix this rear's prices - by agreeing hat any accord would have to vait until next month at the

Ten of the 12 farm ministers eiterated their demands that the ceiling be raised to take account of what they claim is he unforeseen cost of integrating east German farms into the CAP. Led by France and Ireland,

hey want to soften the cuts proposed by the commission on ebruary 27. These cuts are intended to imit the rise in farm spending his year to Ecu7.4bn, a record

30 per cent leap from last year, outhing the ceiling of Scu32.5bn (\$40bn).
Only the UK, and, with some lithering, the Netherlands, are solding fast to the guideline, ooth in the council of farm ninisters and finance minis-ers, whose unanimous agree-

nent would be needed to The UK's fiscally rigid stance was one of three



Ray MacSharry: to present radical reform of CAP emerging from vesterday's

 Ireland was advocating the adoption of the guideline but creation of "an ad hoc mecha-nism", a special reserve, in case it is broken. In common with France and others, the Irish believe the commission has overreacted to one-off effects like that of the "mad cow" scare and the Gulf crisis on the beef market, has exaggerated overproduction trends, is overly pessimistic about world farm prices, and has mis-judged how fast the dollar is strengthening, reducing the cost of export subsidies. France appears still to want

to take the wrangle to the European summit due in June, in the hope of winning sanc-tion for a higher guideline, having failed to get it on to the agenda of the special summit here on April 8, devoted almost entirely to the Kurdish emer-

gency.

The finance ministers meeting which took place alongside that summit replicated the 10-2 division among farm ministers over the guideline. But it was a European summit, in Brussels in February 1988, which set the

yearly ceilings.

The Irish idea of a special reserve would, commission and UK officials say, require the unlikely unanimity of the

finance ministers.

However, one of its underlying premises — that Brussels has done its sums wrong—appears to be buttressed by figures from the commission's periodic "early warning sys-tem" survey of expenditure. These show that price support to the end of this month has been underspent by Ecul.1bn. France also pressed last night for an update.

But commission officials maintain that the seeming underspend is because certain member states, Italy in particular, are behind in paying out subsidies to their farmers.

They also dismiss the con-tention that the stronger dollar will save the guideline, since its effect will not feed through until next year.

There is concern in the commission, however, that if a summit were to address farm spending, it might fix guidelines into the future, and queer the pitch for the radical reform Sharry, EC agriculture commissioner, is due to present in

detail by July.

Its preferred alternative may in the end be simply to roll over last year's price pack-age, keep formally within the 1991 guideline and pass on surplus spending to next year, when it hopes to start the



laws more flexible

debts of almost \$13m. While plummeting international silver prices mean that silver producers have been worst hit, the entire sector is in poor shape. Preliminary fig-ures for 1990 indicate that direct losses may be around \$130m, close to those registered in 1986, the worst year in the last decade. State-owned giant Centromin lost \$50m last year and is contemplating drastic personnel cuts. Only five minne companies reported profits last year, according to preliminary data - Southern Peru Copper, Orcopampa, Milpo, Simsa and Arcata.

Copper output fell 13 per cent in 1990 from 1989, while silver and iron production declined 15 and 20 per cent respectively. Spare parts and maintenance problems at HierroPeru, the country's sole iron producer, meant a fall in iron output from 29m tons in 1989 to 2.1m last year. High interna-tional metals prices partially masked the crisis – but this year is likely to be worse, according to industry sources.

Speaking at the close of the national Mining Engineers' Convention in Lima. President Fujimori acknowledged the importance of the mining industry. It generates over half of all foreign exchange earnings and employs one in five of the population. The solution to the sector's problems, he recognised, lay in a more realistic exchange rate and lower interest rates.

The dollar-inti exchange rate has scarcely moved since December. The init is over-valued by a factor of three, according to the mining industry. Mr David Ballon, president of the Mining Engineers' Institute says the sector has lost \$1.62bn in the last two years alone through exchange rate lag. This has meant low levels of reinvestment and failure to spend on exploration. Many mines' proven reserves are now perilously low-

Short-term debts also plague the sector. Mines have been forced to borrow heavily to pay taxes levied on total sales. rather than profits and run between 20 and 30 per cent of turnover. Interest rates exceed 20 per cent a month, in spite of a gradual fall in inflation, down to 7.7 per cent last month Mining companies' debt positions have been exacerbated by Centromin's failure for the past several months to pay suppliers.

Participants from abroad at the convention emphasised the need for Peru to stabilise tax policies and standardise con-

tracts along Chilean lines.
Their call appeared to have been heard by President Fuji-mori, who promised in his closing speech a decree to promote mining investment under extraordinary facilities recently granted by parliament. This, he said, would make laws "more flexible," attract risk capital and favour

ioint ventures. If the main problem for Peruvian miners continues to be the exchange rate, there is another to which there is no solution yet in sight — terror-ism. The SNM counts 304 terrorist actions directed at mining companies during the last decade, mainly with the object of stealing explosives and other supplies. Attacks have left 62 dead, it calculates, with a disturbing recent rise mining employees were killed in remote mountain camps in

his talk

Titrest Const.

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Aviatio

bldings

Nickel development plans as prices boost confidence

PRESIDENT ALBERTO

Fujimori has declared a state

of emergency in the Peruvian

mining industry and announced tax concessions to

give the beleaguered sector a breathing space. From July, small and medi-

um-sized mines will be exempted from the current 5

per cent emergency tax on cop-per export. Output from mines

in this category is worth \$750m

(£441m) a year, or over a third

of Peru's earnings from min-

ing. Peru's important silver

mining sector will also benefit

from new "drawback" mea-

sures which allow it to reclaim

income and business equity

Although the measures were

welcomed by Mr Luis Rodri-guez Mariategui, head of the

National Mining Society, (SNM), it is not clear whether

they are in time to save about 14 medium-sized mines under

threat of closure. For example

Huaron, a leading silver, zinc and lead producer has been los-

FIRM NICKEL prices and the prospect of sustained global growth have persuaded Falconbridge Ltd to commit C\$35m (£17.6m) to underground development at its remote Ragian property in northern Quebec over the next 18

Falconbridge, owned 50-50 by Nor-anda and Trelleborg of Sweden, is dis-cussing developing a mine at Raglan with annual output of 20,000 tonnes of nickel. The cost would be around C\$375m, including infrastructure.

The property has been long known as Falconbridge's "perennial mine of tomorrow". The deposit was found after World War II by the late Mr Murray Watts, one of Canada's most successful mine finders. He was looking for uranium as well as precious and

base metals.
Falconbridge bought control of the

property in 1957 and spent many millions of dollars outlining the deposit. However, its location north of Schefferville and the northern rail terminus, ruled out development.

Ragian is nearly 1,000 miles north east of Montreal and only 60 miles south east of Deception Bay, on Hud-son Strait, the shipping point for the former Asbestos Hill mine. During the seventies asbestos fibre was mined openpit and shipped for refining at Nordenbeim in Germany until the US Environmental Protection Agency finally knocked the bottom out of the international asbestos market.

Last month, the ice-breaking freighter Arctic, used to move zinc ores from the central Arctic to European refineries, successfully navigated the forbidding ice in Deception Bay, tying

GRAINS - London FOX

This means the old three-month ship-ping season for asbestos can be extended to eight months, helping Rag-lan's economics significantly. The mine past, but the rugged terrain makes the prohibitive. The tree line ends just north of Schefferville and the permacould operate year-round and produc-tion for four months stockpiled.

Falconbridge will spend C\$20m at

Ragian this year alone and has begun a full feasibility study. Most of the money will go for an underground ramp, lateral work and drilling. Ragian is a series of deposits along a 30-mile strike length. Estimated reserves are 18m tonnes averaging 3.13 per cent nickel and 0.88 per cent copper in one group of mineralised zones. But total reserves are believed much larger. In terms of grade Ragian is the best undeveloped sulphide deposit any-where, believes Falconbridge.

frost then begins.
Potentially, Ragian could increase Falconbridge's annual nickel output by 25 to 30 per cent by 1996. Last year Falconbridge produced 62,000 tonnes from its mines in Sudbury, Ontario, and in the Dominican Republic. Nickel prices are around US\$4 a lb

Schefferville was considered in the

and many forecast tightness in supply because of problems in the Soviet Union. Together the Soviet Union and Cuba have been supplying between 12 and 15 per cent of western demand. Falconbridge says production in Sudbury and Dominican Republic will remain flat for the next few years and

The mine would be a fly-in/fly-out Raglan would help retain its world

Government C\$425m support package criticised as too little

By Robert Gibbens in Montreal

government plans to bolster 1991 farm income by C\$425m (5214m) this spring through its Farm Support and Adjustment

It claims that this will bring realised farm income to C\$ 3.3bn from \$3bn in 1990. Realised income is operating profit after depreciation.

But both western and eastern farm groups said that this would not be nearly enough to counter the farm crisis, particularly on the prai-

Incomes will remain under pressure from the continuing US and Europe, and the impact of Canada-US free trade on horticulture.

Western groups were the most critical. The Saskatche-wan Wheat Pool said that the prairies alone needed C\$1.3bn this year to offset low prices and "they gave us

However, Mr Donald Mazankowski, the federal agriculture minister, said that the government "just doesn't have the

gency annual bail-outs, with cal incentives income insurance designed ers to take may be guarantee participating of production.

farmers 90 per cent of long-term average income in case of crop disasters or low Further changes in the sys-

tem are due next year.

The federal government picks up part of the premiums but most provinces have delayed their contributions and farmers have been slow to sign up. Mr Mazankowski agrees that the premiums are

high. The government has also Farm Support announced modest help for time replaces emer-horticulture and direct financial incentives to prairie farmers to take marginal land out

Amax optimistic of a bright outlook for aluminium By Kenneth Gooding, Mining Correspondent

WORLD COMMODITIES PRICES

ALUMINIUM'S OUTLOOK remains exceptionally bright, in spite of the present very low prices, according to Mr Alan Born, chairman of Amax, the third-largest US aluminium

He told London analysts and institutional investors that he predicted the market would be about balanced - as long as there is no sharp deterioration in economic growth in Europe or Japan. His view contrasts with that of most analysts who expect a supply surplus this

Mr Born admitted that very few of the west's aluminium smelters were profitable at today's prices. "But we think the market is at or near the bottom of the current price came up for renegotiation. bottom of the current price

Market sentiment had not been helped by the delivery to the west of about 100,000 tonnes of aluminium from the Soviet Union in the past 30

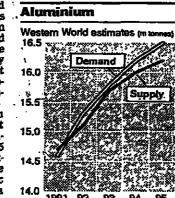
Aluminium for immediate delivery closed at 62.79 cents a lb on the London Metal Exchange last night. Mr Born suggested 80 to 85 cents a lb was more likely to be a sustainable price. The highest-cost smelters

were in Europe and cuts would probably come in this region, he pointed out. Some of the older smelters in North America, which were benefiting from power contracts related Amax estimated that primary aluminium demand would rise from 14.6m tonnes this year to 16.2m tonnes in 1995. This forecast indicated that a new 200,000-tonne smelter was required every second year, Mr Born said. But he added: "I don't see that happening. Not enough new smelters are being built."

The group had enough faith in its forecasts to invest heavily in new primary aluminium capacity. It had a 25 per cent interest in the recently-completed expansion of the Becancour smelter in Quebec and was constructing a US\$1bn, wholly-owned smelter at Deschambault, also in Que-

Together these projects would add about 50 per cent to Amax's primary aluminium

€/tortne



cent of this would be surplus to Amax's own requirements. More than two-thirds of Amax's capacity by 1992 would be based on hydro-electric power, up from just over 49 per cent at present, and would put its costs "among the lowest of

the low." Amax also expected to go ahead with the proposed \$1bn (£588m) Antlantal smelter in lceland in which it would have a 40 per cent interest.

Mr Paul Drack, president of Alumax, the group's alumin-ium subsidiary, said negotiations about power contracts for the Iceland project were almost completed but capital costs needed to be trimmed and government permission to use for-eign workers would be required. He hoped the Iceland

MARKET REPORT

Copper prices held steady in dollar terms on the LME sterday, but lacked the incentive to test resistance between \$2,440 and \$2,450 a tonne for three-month netal. Dealers sald an earlier rally was underpinned by continued demand for May delivery metal. Because of this technical strength the market is shrugging off fundamental s, such as rising supplies and high inventories. Zinc prices lost early gains in the afternoon under general seiling and liquidation. Traders said the possibility that today's LME stock liqures will show a further increase set prices back on the

London Markets

SPOT MARKETS

Crude oil (per berrel FOB)		+ or -
Dubei	\$15,70-7,85u	+0.50
Brent Bland (dated)	\$19,70-0,75	+0.60
Brent Blend (Jun)	\$19:60-9.65	+0.65
W.T.J. (1 pm est)	\$21,40-1,45u	+0,75
Oil products (NWE prompt delivery per t	onne CIF)	+ or -
Premium Gasoline	\$247-249	+1
Gas Oil	\$183-194	+6
Heavy Fuel Oil	\$70-72	_
Naphtha	\$203-205	-2
Petroleum Argus Estimates	<u> </u>	
Other		+ or -
Gold (per troy oz)-	\$367.30	+0.85
Silver (per troy cz)-	396,50c	+ 4.00
Pletinum (per tray oz)	\$387.50	6.75
Palledium (per troy oz)	\$96,75	
Aluminium (free market)	\$1380	-15
Copper (US Producer)	11422	+ ,5
Lead (US Producer)	33c	
Nickel (free market)	422c	-2
Tin (Kuele Lumpur merket)		+0.04
Tin (New York)	258c	
Zinc (US Prime Wostern)	63c	
Cattle (live weight)†	111. 93 p	+0.61*
Sheep (dead weight)?	233.87p	+28.0*
Pigs (live weight)†	88.18p	+ 1.26
London daily augar (rew)	205.01	-20
London delly sugar (white)	\$265.01	-2.0
Tate and Lyle export price	<u>522</u> 7.0	+0.5
Barley (English (sed)	£124	
Meize (US No. 3 yellow)	£178	
Wheat (US Dark Northern)	297	
		+0.50
Rubber (May)♥ Rubber (Jun)♥	52.75p 53.50p	+0.50
Rubber (Jun) W Rubber (KL RSS No 1 May)		لايت. ت
Coconut oli (Philippines)5	\$330q	+5
Palm Oil (Malaysian)5		+7.5
Copra (Philippines)§	\$2204	
Soyabeans (US)		+ 6.0
Cotton "A" Index		+0.10
Noottops (64e Super)	344p	+2
a tonne unless otherwise	stated. p-per	ce/kg.
-cents/ib. r-ringgit/kg. q	-Jun/Jul t-M	ay/Jun

u-Jun. x-Jul/Aug. s-Apr/Jun. †Mest Commit average fatatock prices. " change from s. w

second half of last week. The cash to three months delivery backwardation fluctuated between \$30 and \$40 a tonne as traders watched for any signs of a renewed flare-up in the tightness which pushed the backwardation out to \$240 a tonne last week. Aluminium prices closed easier: aithough IPAI data for March showed a daily average fall in production of 400 tonnes to 40,200 tonnes it made little impact. The fall was expected following a power failure that halved March output at Brazil's Albras smelter; the figures did not show any signs of producer restraint elsewhere.

Compiled from Reuters

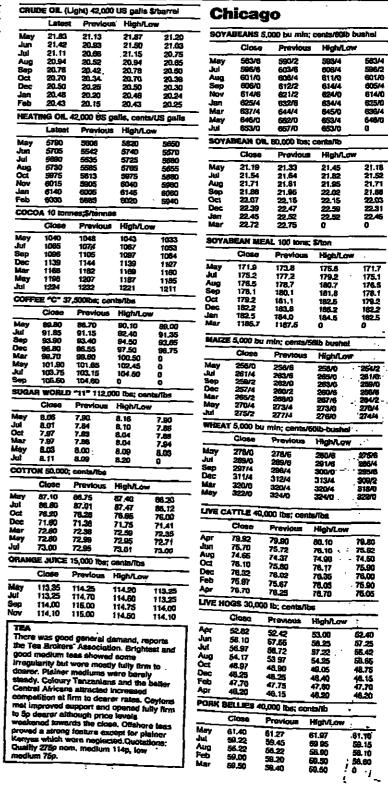
	- Lond	on FOX	(S per tonne
Rarer	Close	Previous	High/Low
May	177.60	175.00	178.00 173.00
Aug	178.60	175.00	179.80 174.60
Oct	179.00	175.00	180.00 175.40
Dec	180.00	176.00	175.00 173.00
Mar May	179.00 180.00	175.00	179.20 176.00
Aug	184.00	177.40	180.00 177.00 184.00
White	Cicae	Pravious	High/Low
Aug	270.0	261.9	267.5 262.0
Oct	251.5	244.0	248.5 244.9
Dec	249.5		243.0
Mer	252.5	245.0	247.5 245.4
May	257.5	248.9	253.0 250.9
<u>Aug</u>	267.5	280.0	258.2 Ots of 50 tonnes.
			Aug 1583, Oct 1482
	OLL - IF	T	S/barre
	Lates		us High/Low
	19.59	19.14	19.65 19.06
Jul .	19.59 19.30	19.14 18.95	19.65 19.06 19.35 18.69
Jul Aug	19.59 19.30 19.20	19.14 18.95 18.83	19.65 19.06 19.35 18.69 18.90
Jul Aug Sep	19.59 19.30 19.20 18.14	19.14 18.95 18.83 18.85	19.65 19.06 19.35 18.69 18.90 19.15 18.80
Jul Aug Sep Oet	19.58 19.30 19.20 18.14 18.80	19.14 18.95 18.83 18.85 18.85	19.65 19.06 19.35 18.69 18.90
Jul Aug Sep Oet IPE Inde	19.59 19.30 19.20 19.14 18.90 x 19.07	19.14 18.95 18.83 18.85 18.85	19.65 19.06 19.35 18.69 18.90 19.15 18.80
Jul Aug Sep Oct IPE Inde Turnave	19.59 19.30 19.20 19.14 18.90 x 19.07	19.14 18.95 18.83 18.85 18.85	19.65 19.06 19.65 19.06 19.35 18.69 18.90 19.15 18.80 18.60
Jul Aug Sep Oct IPE Inde Turnave	19.59 19.30 19.20 19.14 18.90 x 19.07	19.14 18.95 18.83 18.85 18.85 19.21	19.65 19.06 19.65 19.06 19.35 18.69 18.90 19.15 18.80 18.60
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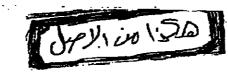
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dem.	Spot 126.69 126.19 124.78 136.01 Putures 128.13 128.54 129.42 133.93

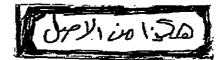
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Previous High/Low Wheat Close 139.00 140.70 111.10 114.25 138.30 139.00 141.30 140.90 110.60 110.60 113.95 113.60 120,40 123,60 Barley Close Previous High/Low 118,25 117,85 Turnover: Wheat 220 (115), Barley 54 (20). PIGS - London FOX (Cash Settlement) p/kg Close Previous High/Low Turnover: 162 (127) lots of 3,250 kg London FOX Close Prev. 153.37 153.10 153.20 152.90 152.80 152.50 153.98 153.50 163.70 153.00 153.50 153.20 **New York** GOLD 100 troy oz.; \$/troy oz. PLATINUM 50 troy oz, S/troy oz. Close Previous High/Low 383.1 383.5 385.8 386.4 463.3 410.3 412.7 418.0 423.3 428.7 418.5 Previous High/Low 102.55 109.40 108.50 107.85 107.15 106.50 106.20 105.45 104.80 112,10 110,40 110,10 0 108.20 0 0 107.30 106.10 0







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OF SIMAL APRIL

LINDON STOCK EXCHANGE

FT-SE 2,500 level lost/in slow trade

UK stocks suffered another sharp reversal yesterday, fall-ing nearly 30 points to close below the FT-SE 2,500 mark as investor optimism melted away on both sides of the Atlantic Selling pressure remained fairly modest but buyers continued to avoid UK equities, believing that further cuts in UK interest rates may be delayed and that the domestic

economy remains depressed. The Footsie Index ended 29.3 down at 2,490.8, the low of the day and the first close below 2,500 since the beginning of the month. Concern over interest rates and economic uncertainties mirrored those in New York. London, already depressed by the fall of 34 Dow depressed by the fall of 34 Dow points in New York on Friday, fell sharply in late dealings yesterday as Wall Street recorded a loss of a further 32

Access	t Dealing	Dates
First Dealings: Apr 15	Apr 29	May 20
Option Declarati Apr 25	006: May 15	May ao
Lest Dealinger Apr 26	May 17	May 31
Account Day: May 7	May 26	Jun 10
Tienritine deale 6.30 am two box	inees days e	place from offer.

Dow points early in the new session. Having failed to show much enthusiasm last week for Wall Street's successful, albeit brief, move above Dow 3,000, the UK market now seems to be reacting quickly to the fall in the US market.

As often when the underlying equity market lacks cer-tainty, share prices reacted to movements in .e June futures contract on the FT-SE index. In late trading, the futures con-tract turned down and led the

However, equity trading vo March. umes were moderate in Lodon yesterday, with Serecorded turnover at 403 shares, compared with 465, on Friday and as much as 70 shares daily during 12 month's bullish period. Let volume is disturbing forthe securities industry; Loon Stock Evaluations 1988

Stock Exchange data sws that retail business fell the £700m - £800m daily age last week, after runninwell above £10m daily in MalThe latest Confederation of British Industries/Fincial British industries/Frictal
Times survey of disputive
trades did little tohange
views on the underly sluggislmess of consumerusiness
— an unexpected rifm high
street sales appears o reflect
special factors, caffy the

underlying equity market sharp increase in Value Added below the 2,500 mark

Today brings the UK trade figures for last month which equity market analysts predict will show little change from the £0.7bn monthly deficit

recorded in February.
Wall Street's influence
brought widespread falls in the
blue chip internationals, where the dollar's strength proved no help to such US currency earn-ers as BAT Industries and the pharmaceutical stocks. ICI, with first quarter trading fig-ures due this week, fell smartly. With crude oil prices still unsettled and many analysts bearish, BP and the other leading oil producer shares could make little headway in yesterday's stock market. The retail sector took the CBI/FT survey fairly well, and

FT-A Ali-Share Index

1250

Equity Shares Traded

around the \$20 a barrel mark,

and the strength of the dollar.

"With oil priced in dollars the

majors are 100 per cent

exposed to the currency," said

advisers had priced Kif's 25 per cent holding in Enterprise Oil

There were hints that Elf's

Turnover by volume (million)

1050

400

although there was little buying support across the broad range of the sector, there were a few firm spots. Ratners, the jewellery chain, brushed off disappointing results as investors continued to show faith that there will be a recovery in the economy, and thus in con-sumer confidence, by the end of the year. Kingfisher, the high street store group, man-aged one of the firm perfor-

mances of the session.

Mr Neil Mackinnon, chief economist at Yamaichi, warned that the next shock for London and other global equity markets, could come on Friday when the first quarter gap data for the US economy are pub-lished. "So far there is little

evidence to support the official view of an early recovery in the (US) economy," said Mr Much of the recent selling has come from overseas inves-tors, it was said, with Japanese institutions conspicuous and heavy sellers. Also depressing heavy sellers. Also depressing sentiment has been unease about the UK government's chances of winning the next general election. The opposition Labour party has recently reaffirmed its intention to renationalise the water companies if the the election.

The Package was down over 2100 at one point yesterday, but rallied to close a net £42 off at £2568. Anglian Water weakened 10 to 286p, while Southern dipped 8 to 270p and Severn Trent the same amount to 280p. North West drew sus-

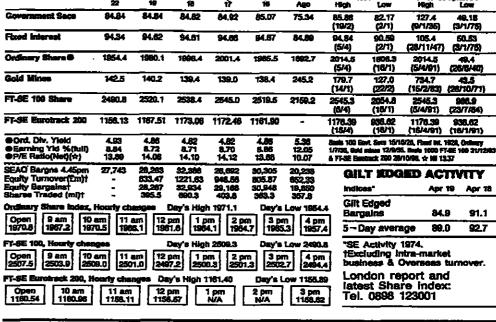
if it wins the election.

tained support, closing unchanged at 296p after 291p. Crossite returned from suspension with a reassuring directors' statement, and the shares closed at 24p, double the April 5 suspension price. Further speculation that the UK Ministry of Defence will shortly award its much-mooted

replacement tank contract to Vickers failed to support the shares, which fell 7 to 218p. Vickers manufactures the Challenger tank, a new and more sophisticated version of its old Chieftain series. Downiebrae, the Glasgow-

based steel profile and pipe flange manufacturer, found favour ahead of Friday's annual results and ended 7

■ Other Market statistics. including the FT-Actuaries



FINANCIAL TIMES STOCK INDICES

TRADING VOLUME IN MAJOR STOCKS

EQUITY FUTURES AND OPTIONS TRADING

Based on the trading volume for a selection of Alpha accuration deelt through the SEAG avaisant we

performance on Wall Street sent UK stock index futures scurrying lower yesterday and dragged the share market

decline on Wall Street to send

even the small number of

with them. Instead, turnover was dominated by market pro-fessionals and securities

FT-SE 100 index options, with some investors short of futures buying April calls and others buying puts and selling calls, all of which are deals that assume the equity market will weaken further.

The June FT-SE futures contract traded for much of the session just 20 points above

the 30-point premium brokers estimate is necessary to take account of future dividend payments and financing cost.
June FT-SE closed at 2,511

investors in the recent Euro-

busy contract as a large tech-

Royals hit by rights talk

SUSTAINED weakness in Royal Insurance, the composthe insurer, was accompanied by vague market suggestions that the group might be consid-ering a rights issue. A cash call from Royal has been talked about for some time by a number of insurance specialists. Another suggestion is that analysts are preparing to downgrade their earnings and divi-dend forecasts for the

company. Some dealers, however, attributed the sharp fall in the shares, which settled 18 lower at 447p, to the fact that they had held up well against the rest of the sector during the

first quarter. There are suggestions that Royal's first-quarter results, due next month, could show a loss in excess of £60m. Analysts had been hoping that Royal might break even in the current year, but now some of them are looking for a full year loss of something in the order

Gestetner weakens

Downgradings from competing broking houses put shares of Gestetner, the distributor of office equipment and photographic products, under pres-sure. Three analysts at least revised estimates of current year profits, the lowest of which until vesterday had been Smith New Court's £62m.

James Capel was said to have reduced its figure to £58m but more savage cuts came from BZW, and from another house which preferred to remain anonymous. Citing extremely poor trading throughout February and March, which will obviously affect group first-half profits, BZW dropped its estimate to only £50m for the full year. An even lower figure of £47m was said to have been forecast by

another house. BZW retained its longer term view of being overweight in the stock but sees short-term downside. Gestetner closed 20 down at 213p.

Hammerson good The volatile property stock Hammerson was the best per-former of the day among FT-SE

100 constituents in the wake of results announced last week. County NatWest issued a buy note on the stock yester-day. It highlighted the com-

fund management staff attended.

typical 350,000.

Ratners, the jewellery retail chain, shrugged off disappoint-ing final results as investors looked forward to the prospect of a recovery in consumer spending by the year-end. The shares closed 8 higher at 178p

on turnover of 3m.

With nearly half of Ratners'
UK profits made in the Christmas period, the market took heart from the confident statement by Mr Gerald Ratner, the chairman, who said he was hopeful for significantly better trading conditions during that

market estimates. As a result, analysts lowered their current forecasts to around £127m to

It was the turn of cautious opinions on ICI and its first-

NEW HIGHS AD LOWS FOR 1991

NEW Hacks (198).

AMERICANS (208) Am. Cyanstroid, Amer. T &T. BantAmerica, Bowster, Brusswich CPC, California Energy, Cont'l. Bank, Cd. Chat., Danz, Data Genil., Dan & Bradebra Eston, Ford Motter, Gen. Elect., Greyhod Dial, Houseon Inde., NYNEZ, Pal., Permiran, NY, Sears Roebsch, San Co, Tilla, Permiran, NY, Sears Roebsch, San Co, Tilla, Permiran, NY, Sears Roebsch, San Co, Tallah, Uydon, Wahripool, CAMADIANS (12) BC Gas., Indian, Whiripool, CAMADIANS (12) BC Gas., Indian, Whiripool, CAMADIANS (12) BC Gas., Indian, Wahripool, CAMADIANS (12) BC Gas., Indian, Corp. of Alberta, Royal Bk, Cam., Torbon.

Ski, EAMES (2) Espirito Santo, West, Estatesta (3) Paller, Greene King, Sgram, BRLDIANG (3) Amon. Boot (Hontryletty, SWP, Smart LJ), Ward, CHESTGCALD Carlo Rd. P., Engelson, J., Section, S., Cambra A. P., Gableci, Hetene, Hogg Pochisson, Jale Wise, Pape, CS, Scholl, Sherwood Ellicterical (2) ASSO, Cambra A. P., Gableci, Hetene, Hogg Pochisson, Jale Wise, Pape, CS, Scholl, Sherwood Ellicterical (2) ASSW, Doenshab, PyDDS (2) Assoo, Packard, Kewill Syst., Urnoshi & Burchete, Nh. Telenom, Piciple, A., TDK, ENGREESHING (2) ASSO, Peberles, Benecors Sep., Shala Bros., Good, Planter Dellar Wastelfornian, (MYN) S-100 Pl., N. & W. Nigholy Mynto).

(E) Assoc. Fisheries. Beneces (eps. Brees, Goodman Reider Wassistoniador (Wan) S-Igo PL, N & W. Nelcol Vintado.). Sutherland. BEUMSTRIALS (salunar. Statement of the Systems, SRI Prop. Bellarus Bissolri Toys. Sousser, Sridon, Briery Inva., SRI Prop. Bollarus Bissolri Toys. Sousser, Sridon, Briery Inva., SRI Depois Dolphi Pade. Est. Ersidne Hea. 7-igpt Pl., Fabry Prest, Caracolan Hidea, Intervención Communication (Pade.).

amplen Wigs., Intersured Le Cres w & Boner, M. Lebs., Myllobo, Par miop, Petterson Zoch A., Intiand., hyserk, Do. Pd. A., Powe Dulkyn.

one point and the shares even-tually closed at 630p for a gain of 15 on the day. Volume was a

important period.
Full year profits fell 8 per cent to £112m, slightly below

explained that are than 1% bn Saatchi shes are in issue now that the shift offer is complete. As result, it is one of the most lid stocks in the market and his kind of trading volume to be expected. The sharprice ended unchanged at 11D. pany's cautious management policy and exposure to the dollar as reasons to buy. "The worst is certainly over, certainly in terms of sentiment."

said County. The company also made a presentation to its institutional shareholders at the offices of its broker BZW. More than 60

Hammerson was 20 better at

Ratners shines

£130m from £130m to £135m.

chemicals analysts to voice quarter figures due on Thursday. The shares fell 21 to 1060p.

unchanged at 1.P.
Weekend refts that ADT might sell its see in Christies International it the latter 8 off at 218p olatile Brent Walker slid to 66p in the wake of presomment on the

company.

The widemarket reaction combined via a downgrading by Lehman rothers, the securities hour pushed Trafalgar House down 19 to 245p in heavier tradii volume of 2.7m Official confirmation of

weekend ports that Guinness Mahon he UK merchant l announce a substantial inten loss later this week prompt a near 20 per cent drop the bank's shares. bsed a net 8 lower at Myleoffrey Bell, the bank's

chainan, said the results woo include a provision of for bad loans, giving the har an after tax loss of £35m. The will be no dividend, Mr Readded.

ank of Yokohama, Japan's lding regional bank, gained office of Guinness Mahon in 19, paying 148p a share, and holds a 65 per cent stake. Mr obert Maxwell has a 9 per

ent holding. Oil shares were resilient, day. The shares fell 21 to 1080p. closing little changed on ballachape slipped 8 to 332p as ance in spite of the steep falls the company reshuffled its in equities on both sides of the board.

Volume in Sastchi & Sastchi dealers said, by the latest rise climbed to 25m, but trader in crude oil prices, currently

MOTORS (3) Appleyard, Dagenham, Perry, MENSPAPERS (5) Johnston Press, News Corp., PAPERS (6) Alsholt Mead V., Lasson Mardon, TAB Advertising, Whatington J.J., PROPERTY (5) Cap. & Courties, Lead Lesse, Marylebone Este, Sicopi Est. Spc Ed. 2003, Youn Centre, 9:1002 (1) Fil, 604TH APPRICAMS (5) CR Barasses, SA Brewn, Tongas-Natien, TRANSPORT (4) CSX, Dawstongroup, Mayne Michaes, Thobat & Britten, Thobat S. Britten, Fidelity F. Man, Emmor Deal Inc., Fidelity Japan OTC & Rep. Fd., Fleming Amer., Ferning Headpling, GT Chile Fd. Units, Geneels Melsysies Maje, Fd., Haw Prev Bross, Intrum Justifis, Jekarte Fd., Lein Amer. London Amer. Vert., Majacce Fd., Melasia Cap., Select, Melsysien Emp., Co's. He., Do. Wirthas, Moorgate, River & Merc., An. Inc., Soot. Met. Zero Div. Ft., Singepore SCEDAC Fd., South Esst Aslein Fd. Wernte, Holder H., Flancher H., The Erro Fd., To'r., CH.S. (8) Chewen, Econo, Hemilion Ct., Medical Prop., Hemilion Ct., Semon Press, Politics, Condition, East Dagge, Eleberg, Generov, Impair Plat., Worthern Areas.

REW LUWE (25).

RANGE (27) Centre, Lister Frank, Eleberg, Generov, Impair Plat., Worthern Areas.

Berlin (21, 11) Sem., Emilioner Medical Prop., Mater Chart Tr., 180829 (3) East Rend Prop., Herrmony, Windebank.

prior to its imminent placing, but specialists said it was more likely that Elf would hold out for a price in the region of 600p before it would sell. Enterprise were easier at 555p.

one specialist.

Cadbury Schweppes fell 11 to 395p on a revival of speculation about a possible rights issue. Asda was off 1% at 119%p as the market waited for the company's meeting with brokers, to be held later this week. The shares have been depressed on speculation that analysts' forecasts may be reduced. Budgens put on 2 to 47p after reports seeking senior management

changes. Relief that the annual profits shortfall over the previous year was not worse boosted issues of Polymark International, the laundry equipment distributor. The ordinary shares advanced 8 to 28p and the preferred "A" 17 to 115p. Renewed speculative interest

was held responsible for further strength in USM-listed M.L. Laboratories, which fin-ished 18 higher at 455p. There were further setbacks in a water sector still suffering

from last week's news that trading in the Water Psckage is to cease from July 12. Deal ers maintained that this will result in sustained selling of the Package, with funds unwilling to be left with thinly traded components of each package unit.

THE HINT of a weak

down in its wake. A dearth of buyers initially left the London market vulner-able to profit-taking. It then only took suggestions of a

equity futures still lower. Brokers said the lack of buying made it difficult to execute

There was also interest in

down 33 points on the day and 17 points above the spot in Hanson August 220 and 240 calls were actively traded as

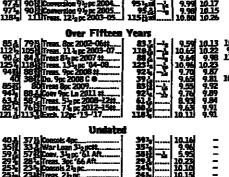
bond issue continued to sell calls as a hadging trade against the bonds.

GEC August 200 puts were a

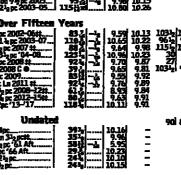
LONDON SHARE SERVICE

RRITISH FUNDS





Prospective real redemption rate on projected inflation of (1) 10% and (2) 5%, (b) Figures in parentheses show RPI base for indeeding, (it 8 months prior to issue) and have been adjusted to reflect rehasing of RPI to 100 in January 1987. Conversion factor 13.943. RPI for August 1990: 128.1 and for March 1991: 131.4.1





INT. BANK AND O'SFAS

LOANS

Building Societies

1044 | 1024 | Invierogia 37 | 1222 | 1234 | -4 | 5.33
1064 | 1044 | 10.4 | 25 | 24 | 1064 | -4 | 5.00

FOREIGN BONDS & RAILS

APPOINTMENTS

Chairman of Aviation **Holdings**



Mr Stephen Walls (pictured) has been appointed non-executive chairman of AVIATION HOLDINGS from May 23, holding company of the Electra Aviation Group which specialises in commercial aircraft leasing. He is chief executive of Wiggins Teape Appleton, and was previously group manag-ing director of The Plessey

CANNON STREET

INVESTMENTS has appointed

In John Maclean as a non-executive director.

LAURENTIAN FUND MANAGEMENT, investment um of Laurentian Financial

Group, has appointed Mr Ngel Quinnen as director of UK equities. He was head of UR equities at Lazards.

mr Patrick Hall, an equity partner and director of Maso. Philips since 1980, will be joining the board of GREAT PORTLAND ESTATES as an executive director from Augst

Mr Andrew Hindmarsh hs been appointed director and general manager of R.J.L. FINANCE, of Stretford, Manchester, personal loans subsidiary of Refuge Group.

CAMERON IRON WORKS Livingston, West Lothian, his appointed Mr Derek Graham Pattle as director, forged products division, from May 1. He was operations directa and joined the company in

Mr Stephen Hannah has been appointed a director ad head of fixed income research at IBJ INTERNATIONAL. e was a director and head of research with NatWest Cattal

Sir Robert Clark and M Alan Clements have beer appointed non-executive directors of MIRROR GRUP NEWSPAPERS in prepartion for its flotation. Sir Robt recently retired from TS Group where he was deuty chairman. He is a non-executive directors Shell Transport and Tradin Co. Smithkline Beecham and Racal Telecom. Mr Ciments

recently retired from ICI where he was finance director. He is non-executive chairman of David S. Smith Holdings, and a non-executive director of Trafalgar House, Granada Group, The Brent Walker Group, and Guinness Mahon Holdings.

■ HERON INTERNATIONAL has appointed Mr Mike Gilhooley as a director of **Heron Garage Propert** which acquires petrol station sites for the group. He was retail investments manager.



Mr Laurence Newman (pictured) has been appointed chairman of KPMG PEAT MARWICK's leisure and tourisin group.

Mr Martin Lister has become a director of GRE Asset Management, GUARDIAN ROYAL EXCHANGE's investment arm. He was an assistant director.

Sir Victor Garland has been appointed a non-executive director of RATNERS GROUP. He is a non-executive director of the Prudential Corporation, and a director of several investment trusts. Mr John Hughes has resigned from the main board but continues as director of group retail operations.

GROUP PROPERTIES. He was a senior manager, property and construction group, at Ernst & Young. ■ D.G. DURHAM GROUP has appointed Mr Peter Riddell chairman of Durham Hadley Cannon, the group's Lloyd's broking subsidiary, of which Mr Nicholas Morgan becomes

Mr Desmond Taliaard has

been appointed financial director of LADBROKE

was managing director, wholesale division. **■ KLEINWORT BENSON has** appointed Mr Ben Siddons as managing director of Kleinwort Benson Investment Trust Management of which he is a director, and manager,

The Merchants Trust.

managing director. Mr Morgan

■ AT&T ISTEL has appointed Mr Patrick Gaul as business development director. He was with AT&T in Japan as director of international market development. Mr John Maher has been appointed business development manager with the Rover division. He was business operations

manager with Extel Financial.

SOUTH AFRICA

The FT proposes to publish this survey on

May 7 1991. It will be of particular interest to the 89.3 % of the Professional Investment community in Europe who are regular FT readers. If you want to reach this important audience, call Louise Hunter on 071 873 3238

FT SURVEYS

or fax 071 873 3079.

SCOTTISH FINANCIAL

PROFESSIONAL SERVICES

The FT proposes to publish this survey on

May 16th 1991. It will be of particular interest to the 93% and 40% respectively of top Chief Executives in the UK/Eire and on the continent of Europe who read the FT. If you want to reach this important audience, call Kenneth Swan on 031 220 1199 or fax 031 220 1578, or write to him at Financial Times, 37 George Street, Edinburgh EH2 2HN

FT SURVEYS

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AMERICANS

Data General,
Data General,
Dan & Bradstreet S1.
Exton Curpn, 50c.
Echin fre.
FPL Group 1c.
Finor Curp 62/a pc.
Ford Motor S1.
Gen. Elect. 63c.
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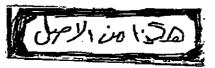
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◆ Latest Share Prices are available on FT Cityline. To obtain your free Share Code Booklet ring the FT Cityline help desk on 071-925-2126 **LONDON SHARE SERVICE** | September | Sept LEISURE MINES - Contd PROPERTY | Mrt ### 149 | Sheek ### 151 | 195 | 113 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 1991
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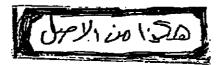
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MONEY MARKET FUNDS

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CURRENCIES, MONEY AND CAPITAL MARKETS

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FINANCIAL FUTURES AND OPTIONS

FOREIGN EXCHANGES

Dollar keeps up the gallop

THE DOLLAR was very firm yesterday, particularly against the depressed D-Mark. The defeat of the ruling Christian Democrats in Sunday's state election in the Rhineland Ralatinate, the home state of German Chancellor Helmut Kohl, increased downward

pressure on the currency.

Mr Kohl's political difficulties weighed on the D-Mark at
a time when it is already suffering from the economic prob-

weakened all memoers of the European exchange rate mechanism against the dollar, but "the US currency was strong in its own right, improving against non-ERM units such as the Swiss franc and the Japanese ven

the Swiss franc and the Japanese yen.
Hopes of a gradual recovery in US economic performance and fading expectations of lower US interest rates helped push the dollar up to another 16-month high against the D-Mark. This followed on from the renewed surge in demand starting Friday, which at that time also lifted the dollar to its highest level for about 16 highest level for about 16

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Apr.22	Late	<u>.</u>		Previous Close	pe Ad
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	_	Apr.2	_	Previous	
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OTHER CURRENCIES

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Brazil Finland	434.860 - 435.455 b.9585 - 6.9800	
Greece	319 85 - 326.25 13.2775 - 13.2905	186,75 - 190,55
	120.70° 1232.80 - 1252.75	
Kuwalt Lucembourg	N/A 61.40 - 61.50	N/A 36.25 · 36.35
Malaysia Mexico N Zeoland	4.6965 - 4.7045 5099.20 - 5119.20 2.9060 - 2.9110	2.7570 - 2.7600 2996.00 - 3006.00 1.7085 - 1.7105
Saudi Ar	6.4050 - 6.4590 3 0305 - 3.0375	3.7490 - 3.7510 1.7765 - 1.7785
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Tahwan U A.E	46.40 - 46.50 6.0490 - 6.3490	27.35 - 27.40 3 6720 - 3.6740
° Selling rate	,	

DM1.7620 yesterday and lar had also advanced touched the day's high at Y139.40 from Y138.35; another resistance point of SF1.4795 from SF1.4705; another resistance point of SF1.4795 from SF1.4705; to FF75.9475 from FF75.8575. London at DM1.7660 compared with DM1.7360 on Friday.

The D-Mark maintained

Finance ministers from the Group of Seven leading indus-trial nations meet in Washington next weekend, amid concern at an apparent lack of agreement on interest rate pol-icy. It was also noted that the US administration's desire for

fering from the economic problems caused by German unification and concern about
growing instability in the
Soviet Union.

The decline of the D-Mark
weakened all members of the
European exchange rate mechanism against the dollar, but
"the US currency was strong in
-its own right, improving
against non-ERM units such as
the Swiss franc and the Japanese yen.

US administration's desire for
lower rates does not appear to
be shared by members of the
policy-making US Federal
Open Market Committee.

A US press report last week
suggested that the FOMC has
agreed interer rates may be
low enough to end the recession. This coupled with concern among some FOMC members about rekindling inflation
if rates are cut were major factors sparking the dollar's surge tors sparking the dollar's surge over the last two trading days. At the London close the dol-

The D-Mark maintained downward trend against yen, which resumed la Thursday after the Bund bank council failed to increa official German interest rat In London the D-Mark finish at Y78.95 against Y79.70 on day and Y81.00 on Thursday

Sterling lost ground in ERM, but stayed second str gest, according to figures for the European Commission.

The pound fell 2.95 cents \$1.6925, after losing 5 cents Friday. It remained stea against the D-Mark, however closing unchanged DM2.9900, while falling FFT10.0650 from FFT10.0875; SP-2.5050 from SFT-2.5355 at SFr2.5050 from SFr2.5325; at to Y236.00 from Y238.25. Si ling's index fell 0.6 to 91.6.

EMS I	UROPE	an curi	RENCY (JNIT RA	TE\$
	Eco Cestral Rates	Corresty Amounts Against Eco Apr 22	% Change from Central Rate	% Spread us Weakest Currency	Divergence fedicator
Spanish Peseta Sterling Hallan Lira Belgian Frans Dotch Golider D-Blant High Punt Dauish Krone French Franc	133.631 0.696904 1438.24 42.4032 2.31643 2.05586 0.767417 7.84195 6.89509	127 282 0.689774 1524.98 42.4531 2.32764 2.06662 0.771651 7.88566 6.96236	-4.75 -1.02 -0.85 0.12 0.48 0.55 0.56 0.98	8.025 1.056 0.49 0.42 0.00	83 19 50 2 -24 -24 -18 -19 -45
Ecu contral rates set by t are for Ece; a positive percentage difference be percentage deviation of Adjustment, calculated b	change denotes a twees the actual of the currency's play	week correccy. I syrbet and Eco car ritet rate from its	Di negan ce sions atral rates for a co	the ratio between Presey, and the co	erostage changes two spreads: the mission permitted

POUND SPOT - FORWARD AGAINST THE POUND									
Apr 22	Day's spread	Close	One receth	% 02	Tèrre months	% pa.			
race moder apas astria miteriand	1.1135 - 1.1225 2.9860 - 2.9960 255,75 - 258,75 183,66 - 184,95 220,25 - 221,220 111,5645 - 11,6450 10,6435 - 11,6450 25,56 - 257,95 21,00 - 21,00 2,500 - 25,220 1,4445 - 1,4500	1.6720 - 1.6420 1.9425 - 1.9435 1.3400 - 0.13700 0.12772 - 11.5975 1.1160 - 1.1170 2.58.90 - 257.90 183.80 - 184.10 11.5900 - 11.5900 19.6072 - 11.5900 19.6072 - 11.6175 225.50 - 236.50 2.5000 - 2.5100 1.4455 - 1.4455 e ed of Luxdon traff	0.80-0.78cpm 0.42-0.34cpm 13-13cpm 13-13cpm 0.20-0.15cpm 6-13cdk 21-25cdk 21-25cdk 21-25cdk 21-25cdk 21-25cdk 21-25cdk 21-25cdk 21-25cdk 21-25cdk 21-25cdk 21-25cdk 21-25cdk 21-25cdk 21-25cdk	5225058844753874525284	228-2-25mm 113-1-05mm 44-35pm 44-35pm 050-0-45pm 34-63dp 33-7-345 33-7-7-345 33-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	5.35 2.17 2.45 2.45 1.74 1.61 2.79 -0.89 -0.87 2.45 2.45 2.45 2.45 2.45 2.45 2.45 2.45			
.80-6.70pm		- FORWAR			·				

Close One month % Three %

Metherlands 1.96 Belgiam 35 Belgiam 35 Belgiam 36 Bermark 6.62 Fortugal 151 Spula 107 Italy 1285 France 5.86 Syudiam 138 Anstria 128 Switzeriam 1.46 Switzeriam 1.46	25 - 6.8475 95 - 5.9575 90 - 6.2758 45 - 139.50 70 - 12.4010 65 - 1.4860 85 - 1.1860 ken towards (h	15160 - 1.57 1.1590 - 1.16 1.9800 - 1.98 36.25 - 36.3 6.725 - 6.72 1.7655 - 1.76 1.7655 - 1.76 1.108.60 - 108. 1.303.50 - 130 6.8425 - 6.34 1.303.50 - 130 6.8425 - 6.37 1.23725 - 1.23 1.4790 - 1.49 1.1700 - 1.17 e end of London	00 0.33-0 0.47-7 5 7.50-7 75 0.42-0 85 7.7 1.00 5.40-5.9 7.75 2.60-3.1 0.33-0 1.124-9	. 33cils -3 . 50cils -2 . 50cils -2 . 70ceis -3 . 44pidis -2 . 44pidis -6 . 468cils -7 . 60liredis -3 . 53cils -3 . 53cils -3 . 52pidis -1 . 00prelis -2 . 131cils -2 . 33cpan 3 . Ireland and	26 0.93-0 1.46-1 25 2.00-27 96 1.29-1 20 16-50-17 99 1.450-17 99 0.93-0 1.450-17 98 0.93-0 1.98-0 ECU are quotad	51.68 50.68 50.68 32.08 270.68 190.65 50.68 51.68 51.68 6.63.68 60.68 86.68 95.00	3.40 -3.29 -3.75 -3.75 -5.28 -3.00 -3.75 -3.00 -3.75 -
	URO-CL	JRRENC	Y INT	REST	RATES		
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EXCHANGE CROSS RATES											
		_	_	_	_		_				
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Apr.22 £	£	\$ 1.693	BM 2.990				H Fl.		C\$		
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£ S DM YEN	1 0.591 0.334	1.693 1 0.566	2.990 1.766 1	236.0 139.4 78.93	10.07 5.948 3.368	2.505 1.480 0.838 10.61	3.365 1.988 1.125 14.26	2207 1304 738.1	1.963 1.159 0.657	61.45 36.30 20.55 260,4	1.44 0.85 0.48 6.12
£ S DM YEN FFr.	1 0.591 0.334 4.237	1.693 1 0.566 7.174	2.990 1.766 1 12.67	236.0 139.4 78.93 1000.	10.07 5.948 3.368 42.67	2.505 1.480 0.838 10.61	3.365 1.988 1.125 14.26	2207 1304 738.1 9352	1.963 1.159 0.657 8.318	61.45 36.30 20.55 260,4	1.44 0.85 0.48
£ S DM YEN F Fr. S Fr.	1 0.591 0.334 4.237 0.993	1.693 1 0.566 7.174 1.681	2.990 1.766 1 12.67 2.969	236.0 139.4 78.93 1000. 234.4	10.07 5.948 3.368 42.67 10. 4.020	2.505 1.480 0.838 10.61 2.488	3.365 1.988 1.125 14.26 3.342	2207 1304 738.1 9352 2192	1.963 1.159 0.657 8.318 1.949 0.784	61.45 36.30 20.55 260.4 61.02	1.44 0.85 0.48 6.12 1.43 0.57
E S DM YEN FFr. SFr. H FL	1 0.591 0.334 4.237 0.993 0.399	1.693 1 0.566 7.174 1.681 0.676	2.990 1.766 1 12.67 2.969 1.194	236.0 139.4 78.93 1000. 234.4 94.21	10.07 5.948 3.368 42.67 10. 4.020	2.505 1.480 0.838 10.61 2.488	3.365 1.988 1.125 14.26 3.342 1.343	2207 1304 738.1 9352 2192 881.0	1.963 1.159 0.657 8.318 1.949 0.784	61.45 36.30 20.55 260.4 61.02 24.53	1.446 0.856 0.486 6.127 1.436
E S DM YEN FFr. SFr. H FL Lira	1 0.591 0.334 4.237 0.993 0.399 0.297	1.693 1 0.566 7.174 1.681 0.676 0.503	2.990 1.766 1 12.67 2.969 1.194 0.889	236.0 139.4 78.93 1000. 234.4 94.21 70.13	10.07 5.948 3.368 42.67 10. 4.020 2.993	2.505 1.480 0.838 10.61 2.488 1	3.365 1.988 1.125 14.26 3.342 1.343	2207 1304 738.1 9352 2192 881.0 655.9	1.963 1.159 0.657 8.318 1.949 0.784 0.583	61.45 36.30 20.55 260.4 61.02 24.53 18.26	1.44 0.85 0.48 6.12 1.43 0.57 0.43

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Yen per 1,000; French Fr. per 10; Lira per 1,000; Belgian Fr. per 100.

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MONEY MARKETS

London rates firmer

NEWS OF a sharp rise in March UK retail sales pushed interest rates higher on the London money market yesterday. Dealers expected a very small increase of about 0.1 per cent, and were concerned that March sales rose 3.7 per cent after falling marginally in Feb-

ruary.
The authorities said retail demand was boosted by buying ahead of VAT increases. announced in the Budget on March 19, but not effective until April 1. Nevertheless the market is concerned that the figure may delay further cuts in UK bank base rates.

UK clearing bank base leading rate 12 per cent from April 12, 1991

Three-month sterling interbank rose to 11%-11% from 112-112 per cent and 12-month money firmed to 117-11% from 11%-11% per

On Liffe short sterling futures weakened following the . retail sales news. June delivery opened at 88.69 and fell to a low of 88.63 before closing at 88.64 compared with 88.71 previously.

Day-to-day credit was in

short supply on the cash market. The Bank of England initially forecast a shortage of £900m, but revised this to £1.100m at noon and to £1,050m in the afternoon. Total assistance of £875m was

provided. An early round of help was offered and at that time the authorities bought £161m bills outright, by way of £23m bank bills in band I at 11% per cent and £138m bank bills in band 2 at 114 per cent.

Before lunch another £153m

bills were purchased, via £45m bank bills in band 1 at 11% per cent and £108m bank bills in band 2 at 111 per cent. In the afternoon £561m bills were bought, through £81m bank bills in band 1 at 11% per cent, £42m Treasury bills in band 2 at 1111 per cent and £438m bank bills in band 2 at 11H per cent. Bills maturing in official hands, repayment of late assistance and a take-up of Treasury bills drained £949m, with exchequer transactions absorbing £250m and bank balances below target £270m. These outweighed a fall in the

note circulation adding £570m to liquidity.
In Frankfurt call money rose to 8.85 from 8.80 per cent in response to Friday's warnings by top Bundesbank officials that German monetary policy

will stay tight.
Dealers said they expect call money to remain just below the 9 per cent Lombard rate, but are waiting for further guidance from the terms of this week's securities

00 a.m. Apr.22)	3 asocths US dollars	6 months US Bollars			
kt 64	offer 63	M 63	offer 64		

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91.78 92.36 92.66 92.90

FT PRINCIPLE EXCHANGE INTES

BINL-STERLING \$1 per £

1-mile 3-mile 6-mile 12-mile 1.6846 1.6699 1.6518 1.6250

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Trassury Bills (sell): one-month 1113 per cent; three months 11 å per cent; six months 10 å per cent; Bank Bills (sell): one-month 1113 per cent; three months 11 å per cent; Treasury Bills; Average tender rate of discount 11,1806 p.s. ECGD Flord Rece Starling Export Finance. Molecular Manch 28, 1991. Appreciates for period April 23,1991 to May 25, 1991. Schemes 113.52 ps., Schemes 10 å (lit; 13.71 p.c. Reference rate for period March 1,1991 to March 28, 1991. Schemes 1.23 ps., Schemes 10 å (lit; 13.71 p.c. Logid Authority and Finance Houset seven days' notice, others seven days' fued. Finance Houset Sase Rate 13 from April 1, 1991: Bank Deposit Rates for sums averen days notice 4 per cent, Centificates of Tax Deposit. Series 6); Deposit £100,000 and over held under one month 6½ per cent; one-three months 11 per cent; three-six months 10½ per cent; six-sine months 10 per cent; dink-troble months 9½ per cent; under £100,000 8½ per cent; april 15,1991. Deposits withdrawn for cash 5 per cent.

FUTURES TRADERS:

...No ifs, ...ands, ...or buts

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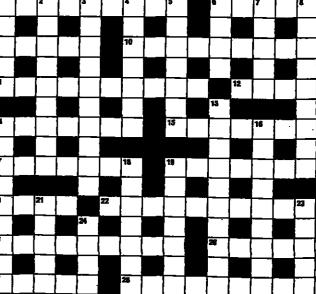
(UK) Switzerland: 046-05% \$58 Futures trading involves risk, including the risk of losses greater then the original investment and currency risk it is not, therefore, suitable for everyone. Per: 071-947-0471

THE WORLD'S LARGEST FUTURES DISCOUNT FROM MEMBER 4780 - CHARGO - LONGON - NEW YO LIND-WALDOCK & COMPANY

Gross Net CAR lat C CAF Memay Management Co. Ltd 68 Penthery Road. Toubridge TMY 210 68 Penthery Road. 11 1.62 68 Penthery Carmitte Strength Accounts 71 22 25 MW 68 Penthery Carmitte Strength Accounts 71 22 22 15 MW 71 26 Penthery Landon ECTY SAG 67 12 22 215 MB 67 12 22 15 MB 67 12 22 15 MB 67 18 18 15 67 18 18 18 18 67 18 18 18 18 67 18 18 18 18 67 18 18 18 18 67 18 18 18 18 67 18 18 18 18 67 18 18 67 18 1 Money Market **Bank Accounts** Financial & General Hams Bit. 13 townies Street, Lendon, SWIX 40X (77-23) 0036 14.10 A 154,000 111.00 973 13.47 0r. 11.10 A 154,000 111.00 973 13.47 0r. 12.10 Many Many Management Ltd. 2.3 When har Yard Lordon SE1 187 0r. 12.4 13.47 0r. 90 90 10.00 973 13.00 12.00 Citibank Savings Citibank Picc Citibank Savings Citibank

CROSSWORD

No.7,525 Set by VIXEN



1 Causing an accountant to give voice about a rogue's gushing (9) 6 A model's vexed question (5)

9 People having a large num-ber returned several (5)

10 Barmen pin a club's letters all over the place (9) 11 A pit occasioning some gloominess (10)
12 Disorder in the home's soon

set straight (4) 14 A condition both for and against one's nothing! (7) 15 Welsh place, as new as can

be (7) 17 Venture quietly to carry on 19 Intend to appear in torn

clothing (7)
20 The period is certainly right (4) 22 Restores control by the USA

(10) 25 Well-shaped white rose

25 Well-shaped white rose that's really "different" (9)
26 A good man will hold firm where speed's the thing! (5)
27 Only a little silken yarn is produced in this country (5)
28 They don't reveal the extent of corpless talk (2.5)

of careless talk (3-6) DOWN 1 Paid for as received - a arrangements (5)

newsman made secret 2 Her poem as translated could well convey a message (9)

3 Check "X" on entering a bus, is quite sober (10) 4 The artist laid it on thick (7) 5 A sculptor of monkeys (7) 6 Coppers help, so get rewarded (4)

JOTTER PAD

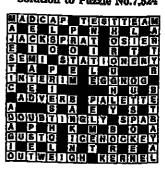
7 Surprisingly, takes the prize (5) 8 Stand out against insect

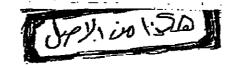
repellent (9) 13 An individual who tries and tries (10) 14 Jabberwocky flower bird (9) 16 Display a single glass? (9) 18 Time for getting uniform (7)

19 Manage with a smaller amount, having no ladder 21 Wooden - not in the least

colourful (5) 23 Places where sties may be built (5) 24 Making a note on a plot (4)

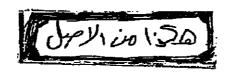
Solution to Puzzle No.7,524





JOTTER PM

SWORD



WORLD STOCK MARKETS 8m. + 8r 1,030 -20 1,030 -20 1,030 -20 1,030 -20 1,030 -20 1,030 -20 1,030 -20 1,030 -20 259,20 -580 259,20 -580 259,20 -580 259,20 -580 259,20 -580 259,20 -580 259,20 -580 259,20 -580 259,20 -580 259,20 -10 259,20 -| Registre | Registre Broam Boveri Colonia Vers Colonia Vers Colonia Vers Colonia Versici Pf Commerzbank Continental A DLW Continental A Dulmale—Berr Deckel (Fr) Degosia Deutsche Baboock Beutsche Baboock Beutsche Ban Didise-Werke Dosplas Hidg Dragerwerk Lidgerwerk Goldechmidt (FH) Hamburg Elekt Hockele Holzmann Ph Hochtlef Hockele Hockele Holzmann Ph Horten Holzmann Ph Horten Holzmann Ph Horten Holzmann Ph Horten Linobyre Leifheit Linobyre Leifheit Linobyre Leifheit Linobyre Leifheit Linobyre Leifheit Mannesmann Manne 37.10 -0.40 -41.20 -0.30 -41.20 -0.30 -128.40 -1.60 -128.4 \$21 \cdot 28 \cdot 25 \cdot 28 \cdot 25 \cdot 27 \$15\\ 15 \$15\\ 14\\\ \$15\\ 16\\ 16\\ 1 \$6\\\ 50\\\ 9\\\ \$21\\\ 21\\\ 2 Ahold Akcold AKCO AMEY AMEY Bot's Lincas Borsanti) Webry Dr. Bushritani Test Dr. Bushritani Test Dr. Centrale Sollier DAF DSM Oordsche Petr Elsevier Dp Rets Fokter Gamenta Gist Brocades Hellind Beton Hellind Beton Hellind Beton Hiller Hellind Beton Hiller Hellind Beton Hiller Retarian Inti Mueller Retarian Inti Mueller RUM RUP RUM RUP Pakhoe Rumicia Ver Bed R -10 -8" TORONTO \$157 345 3194 4629 \$134 \$734 \$734 \$74 \$194 \$194 \$135 \$135 \$135 3:00 pm prices April 22 2400 Abital Pr a 28000 AgnicoEa 28000 AgricoEa 28000 Aloria En 12600 Aloria En 160100 Aloria En 160100 Aloria En 125000 Am Barr 1700 Aton Al \$10 \chi_1 15 \chi_1 15 \chi_1 15 \chi_2 15 \c 15100 Machanzie 9308 Macra Bi 58809 Maris TâT 4805 Maris TâT 2000 Maris Pian 1400 MISS Hin B 2100 Maris Maris 25700 Mitel Corp 18400 Mission A 18400 Mission A 18400 Massocho 73 73 193 195 74 73 75 73 174 174 194 174 191 131 131 131 131 131 234 234 234 234 73 74 \$8 \$194 \$8 \$194 \$772 \$174 \$124 \$124 \$424 \$29 742 ACEC-Union Mila Arbed BBI. 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Stocks Traded 7.4m 4.9m 3.6m 3.6m 3.6m Closing Prices 1,590 783 697 771 1,780 \$100ks Traded 2.8m 2.7m 2.5m 2.5m 2.5m 2,320 2,320 536 471 1,040 3,090 1.030 1.158 927 748 1.400 1.400 1.770 709 506 97 1.570 97 1.570 97 1.570 77 1.500 7 1.500 7 -15 ----+10 **FT SURVEYS** 1,670 1,230 1,1850 652 1,1720 1,1720 1,1720 1,1720 611 7,747 7,05 1,170 2,740 2,740 1,1130 1,1130 1,1130 1,1130 1,1130 1,1130 1,1130 1,1300 1, -30 -20 -30 -15 +15 +10 +13 +1 TURKEY AUSTRALIA Ageil 22 AFP AWA Aberlopie Adelaide Steam Ambor Ampor Ampol Expl Arnotts Ashton ANZ Bank Asst Gas Light Asst Nat Inds BHP -0.01 +0.02 -0.06 -0.20 -0.05 -0.10 -0.04 +0.02

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The FT proposes to publish this survey on

May 20 1991.

The Financial Times is read by 93% of all Chief Executives in UK/Eire and by 40% on the Continent of Europe. If you want to reach this important audience with an advertisement, call Chris Schaanning or Connie Davis on 071 873 3428/3514 or fax 071 873 3079.

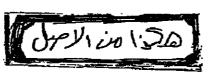
FT SURVEYS

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Mobil counters downtrend on pleasing results

Wall Street

THE DOWNWARD trend in share prices established since record highs for the major indi-ces were reached last week continued yesterday morning, writes Patrick Harverson in

By 1.30pm the Dow Jones Industrial Average was down 35.64 at 2,929.95. At noon the index had been almost 40 points lower, but a modest recovery allowed prices to recoup some lost ground. The more broadly-based

Standard & Poor's 500 was also lower, down 2.74 at 381.46 at 1pm. The Nasdaq composite index of over-the-counter stocks, which had enjoyed the best run since the start of the year, continued to underperform yesterday, dropping 6.80

Turnover on the New York
SE was relatively light at 99m
shares by 1pm, and with
declining stocks outpacing
advancing stocks by a margin
of almost four to one, the weak tone of the overall market was clearly evident.

The recent market rally was fuelled primarily by expectations of economic recovery. lower interest rates and a return to corporate profitabil-ity later this year. These hopes are now fully discounted in share prices, and in the absence of a strong lead from fresh economic news, there is little reason for investors to buy stocks at the moment, say

analysts.

Among individual issues, quarterly earnings figures con-tinued to produce a mixed reaction. In the oil sector, Mobil bucked the market trend with a gain of \$% to \$68% after reporting a hig jump in threemonthly net income to \$1.73 a share, up from 94 cents a share in the first quarter of 1990.Amoco also revealed improved first quarter earnings, up from \$466m last year to \$803m, news which helped the stock firm

The long-running bid battle between NCR and AT&T took another turn yesterday as NCR's stock jumped \$5 to

NATIONAL AND REGIONAL MARKETS

Austria (19)

shares after AT&T said it was ready to improve its offer for the computer group to the equivalent of \$110 a share. The development left AT&T down

\$1% at \$36% on turnover of

NCNB slipped \$1% to \$37% in active trading after the regional banking group said it had held merger talks with Southeast Pancorp and was considering making an offer for the Florida group in the near future. On the news Southeast rose \$% to \$6%. Bankers Trust rose \$1/4 to \$48% after unveiling a 19 per cent decline in first quarter profits

to \$160m. Martin Marietta, the defence equipment manufacturer which makes components for the Patriot anti-missile missile system used in the Gulf war, fell \$% to \$56% in the wake of a modest improvement in first quarter net income to \$1.44 a share, against \$1.32 a share a

Canada

TORONTO continued to decline at midday on poor corporate results and and recession worries. The composite index lost 15.0 to 3,481.9, slightly above a morning low of 3,479.06. Declines led advances by 253 to 147 on vol-

ume of 9.2m shares.
Abitibi-Price rose C\$% to C\$15% in very light trade. The paper and forest products company posted a first quarter loss of nine cents per share against a loss of 17 cents in the yearago quarter

Imperial Oil class A shares were flat at C\$55 dirs after news that the first quarter net fell to 60 cents from 79 cents per share.

SOUTH AFRICA

JOHANNESBURG continued to lack direction. The all-gold index slipped 10 to 1,031 on weaker bullion prices, but the industrial index remained firm at 3,475, just below Friday's record 3,476. The all-share index eased 3 to 2,992.

Germany falls 1.7 per cent in wake of Kohl's defeat

THE WEAKNESS of the German government, and its currency dragged other bourses lower yesterday, writes Our Markets Staff.

FRANKFURT reacted to the crushing defeat for Chancellor Helmut Kohl's Christian Democratic party on Sunday's state election in the Rhineland Palatinate, Mr Kohl's home state, and yesterday's fall in the D-Mark to a 16-month low against the dollar.

After an 8.18, or 1.2 per cent fall in the broadly-based FAZ index at midsession, the DAX index closed 27.46, or 1.7 per cent lower at 1,571.91, its intraday low. The heavier falls in the blue chips, said the Dresd-ner Bank in Frankfurt, indicated that dealers were anticipating foreign selling.

However, the drop in German equity market turnover from DM5.5bn to DM5bn indicated that prices were marked down, rather than forced down by selling volume. By the end of the afternoon, too, the lead-ers were probably a shade higher than the close on aggre-gate, despite a fall of more than 1 per cent on Wall Street.

ASIA PACIFIC

Daimler, Siemens and Deut-sche Bank, the main international stocks, fell DM10.50 to DM680.50, DM10.20 to DM583.30 and DM13 to DM628.50 respectively. Daimler after it said that 1990 group operating profit was about 10 per cent below 1989 levels and Siemens on higher net profits for the half-year to March.

PARIS slipped to five-week lows on the last day of the monthly account, depressed by the French franc's weakness against the dollar and by a finance scandal which threatened to endanger the government. The CAC-40 index lost 23.92 or 1.3 per cent to 1,767.20, its lowest close since March 20, in volume estimated at just below FFr2bn. Trading was dominated by arbitrageurs

tidying up their positions at the end of the account. Among the day's big losers was Paribas, down FFr14 to FFr443 with most of the 123,025 shares traded attributed to arbitrage activity ahead of the close of the share swap with Ciments Français. Alcatel Alsthom, which was weak last

FT-SE Eurotrack 100 - Apr 22 1115.69 1115.63 1113.37 1112.62 Day's High 1116.26 Day's Low 1111.97 Apr 18 1124.98 Apr 17 1126.20

The London Stock Exchange had difficulties yesterday in getting accurate currency exchange rates between 12.30 and 14.40. Tables here and on page 40 omit indices calculated between those times.

FF7569 in spite of news that a consortium led by Alcatel had won a FFr10bn train order from the French state railway. Peugeot gave up some of last week's recovery, losing FFr10 to FFr543.

In the retail sector, Galeries Lafayette rose FFr70 or 41 per cent to FFr1.800 in thin volume of 380 shares after the company said it would not make a full bid for Nouvelles Galeries, in which it has a 38 per cent stake. Nouvelles Galeries fell FFr40 or 5 per cent to FFr760 with 1,350 shares traded. MILAN fell across the board

Insurance and banking shares, which were sought after last week, were particularly hard hit as speculative buying petered out. The Comit index fell 6.65 to 595.99 in volume estimated below Friday's L170bn. Trading is expected to quieten before the public holi-day on Thursday. Fiat fell L69 to L5,480 and dropped further to L5,435 after

declines on foreign markets.

hours. Among the insurers, Generali lost L400 to L38,100 but eased to L37,975 later in the day, while among banks, Mediobanca fell L415 to

Hopes that the protracted feud between Mr Carlo De Benedetti and Mr Silvio Berlusoni for control of the publisher Mondadori would soon be resolved lifted Cir, the holding company of Mr De Bene-detti, to L2,680 after hours, after an early fixing at 12,610, after an early fixing at 12,610, down L20. Shares in L'Espresso, 80 per cent controlled by Mondadori, were suspended at 117,000 amid frantic buying before being fixed 1,920 or 5.9 per cent higher at 1,175 to 13,845 cheed of its 1000 results during the control of the control o

tomorrow.

AMSTERDAM slumped in low volume on fears that the ever-stronger dollar would do more harm than good to corporate earnings and force the Bundesbank to raise rates to protect the D-Mark. Bonds were easier. The CBS Ten-dency index fell 1.9 or 2 per cent to 94.1.

ahead of its 1990 results due

Fokker, the aircraft manufacturer, lost Fi 1.70 to Fi 31.30 on a weekend report in the Dutch press that the US airline AMR Corp might not convert 75 aircraft options into firm

worry about interest rates and first quarter results. The Affarsvärlden general index fell 15.8 or 1.5 per cent to 1,058.1. Volume fell from SKr308m to SKr264m, with onethird generated by Trelleborg and Ericsson. Trelleborg free B shares fell SKr1 to SKr188 and Ericsson free B's fell SKr7 to Skr192. SKF free B's fell SKr2 ahead of its first quarter earn.

ings report due today.

MADRID was lower. A 21 per cent increase consolidated net profit failed to support Banco Santander, which fell Pta70 to Pta5,510. The general index closed 2.85 lower at 279,58 in low turnover of Ptai5bn.

low turnover of Pta15bn.

BRUSSELS saw continued interest in Gechem, the polyurethane foam producer, on ramours that Societé Générale de Belgique would soon sell its stake. The ordinary shares jumped 5.9 per cent to BFr832. The Bel 20 index fell 7.54 to 1,203.29 in volume of BFr835m.

ZURICH saw the Crédit Sulsse index fell 7.3 to 550.0 as a slight firming in domestic slight firming in domestic interest rates kept most inves-tors on the sidelines.

Weaker yen and bond prices prompt profit-taking

Tokyo THE WEAKER yen and lower bond prices brought profit-tak-ing by investment trusts yesterday, but overall trading remained dull, writes Emiko Terazono in Tokyo.

Volume fell to 250m shares, dropping below 300m for the first time since February 4. The Nikkei average, which lost 256.93 on Friday, fell a further 304.96 to 26,237.01, the day's low in spite of sporadic buying by arbitrageurs. The index opened at the session's high of 26,492,45.

Declines overwhelmed rises by 818 to 164, with 151 issues unchanged. The Topix index of all first section stocks fell 22.54 to 1,975.53, and in London the ISE/Nikkei 50 index shed 3.19 to 1,489.05. Traders said the only activ-

ity of note was small-lot, short-term trading. Mr Bill Wilder, director of research at Schroder Securities, said domestic institutions were interest rate scenario due to the weak yen. "The market could be in the doldrums for another three weeks, since the earliest possibility of a dis-count rate cut will be mid-

The smaller markets, which attracted investors looking for quick profits last week, retreated on profit-taking. The second section slipped 8.76 to 3,396.12 and the over-the-counter market fell 30.53 to

Interest rate-sensitive issues also declined on profit-taking, with Nippon Steel shedding Y9 to Y471. Nippon Telegraph and Telephone lost Y19,000 to Y991,000, falling below the important Ylm level for the first time since February 15.
Mitsubishi Heavy Industries receded Y12 to Y771 on reports

that it had decided to write off

Y30bn worth of bills receivable that are due from Iraq. Chiyoda, the plant engineer, dipped Y30 to Y3,030 on profittaking after rising for the last

chemical manufacturer, rose Some investors were attracted by rumours that speculative recently. Demand spread throughout the sector, with Kumiai Chemical adding Y40 at Y1,200 and Hokko Chemical

Securities houses weakened on concern that poor market conditions would affect earn-ings. Daiwa Securities fell Y60 to Y1,350 and Nomura Securities Y30 to Y2,140.

The land transportation sector was the worst performer of the day, losing 4.03 per cent. Traders attributed the weakness to the decline of Seino Transport, which retreated Y150 to Y2,250 on selling by foreigners.

Medical equipment makers improved on reports of new requirements stipulating that ambulances would have to carry electro-cardiographic equipment. Nihon Kohden

developed an ultra-violet ray lamp which decomposes harmful substances in pesticides used on golf courses, but closed unchanged at Y1,260 on profit-taking.

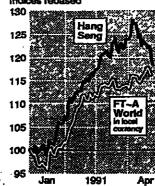
In Osaka, the OSE average fell 342.44 to 29,557.25 on volume of 21.4m shares, down from Friday's 33.7m.

Roundup

A MIXED DAY for equities in the region emphasised the old saying that what goes up must come down, with Hong Kong and Manila as the illustrations. HONG KONG lost 2.3 per cent in heavy trading, but the 84.91 fall to 3.582.49 in the Hang Seng index, its lowest close in seven weeks, still left It nearly 45 points above the day's low of 3,538. Turnover rose from HK\$1.22bn to

Dealers said London instituequipment. Nihon Kohden gained Y10 to Y1,430.

Iwasaki Electronics, a lamp maker, gained ground in the is pegged to the ascending US



dollar; but support for the

Douglas Hurd, the British for-eign secretary, failed to secure an agreement from China on the colony's HK\$100bn interna-tional airport plan earlier this MANILA's downswing accelerated with a drop of 4.1 per cent, the composite index slid-

ing 44.38 to 1,027.12. Some

Supreme Court ruling which allowed industrialist Mr Eduardo Cojuangco, a close associate of the late Philip. pines president Ferdinand Marcos, to vote his sequestered shares in San Miguel, the brewer and market leader.

Turnover fell from 142.9m pesos to 95.9m. San Miguel declined 5.50 pesos to 52.50.

TAIWAN, in contrast, set a 10-month high in modest trading as an historic political reform package was passed. The weighted index advanced 69.91 or 1.2 per cent to 5.824.00.

The index has climbed 510.89 or 9.6 per cent since last

or 9.6 per cent since last Wednesday. However, turnover continued to dwindle yesterday, falling from 1\$76.7bn to

JAKARTA, which has been criticised for not doing enough to protect investors, tightened disclosure regulations for companies hoping to list on the market. The official index, meanwhile, celebrated its return from a week's holiday by rising 3.07 to 415.55 in heavy volume of 5.83m shares.

Mexico in pole position yet again

FT-ACTUARIES WORLD INDICES

Jointly compiled by The Financial Times Limited, Goldman, Sachs & Co., and County NatWest/Wood Mackenzie in conjunction with the institute of Actuaries and the Faculty of Actuaries

Gross Div, Yield

	% clumps to focal currency †			% charge sterling †	% chang in US \$	
	1 Week	4 Weeks	1 Year	Start of 1961	Start of 1981	Start of 1901
Austria	+ 1.41	÷8.09	-23.08	+ 19.81	+ 17.08	+4.4
Belgium	+0.79	÷ 2.83	-3.99	+20.64	+18.05	+5.3
Denmark	+ 0.44	+ 1.63	+0.23	+17.45	+ 14.49	+2.1
Finland	-2.63	-0.51	-17.94	+ 26.82	+28.01	+14.2
France	-1,47	+1,10	-15.05	+ 17.65	+14.52	+2.1
Germany	+ 1.05	+5.20	-14.83	+13.01	+9.10	-2.6
Ireland	+ 1.27	-1.40	-11.34	+ 24.84	+21.41	+8.3
Italy	+ 1.40	+3.47	-18.09	+17.07	+ 15.44	+3.0
Netherlands	+ 1.55	+5.97	+2.43	+20.22		+3.6
Norway	+0.22	+0.61	-14.12	+6.81	+4.40	-8.8
Spain	+0.45	+ 1.59	+4.51	+ 25.49	+25.89	+12.
Sweden	-2.18	-2.38	-1.42	+24.31	+26.65	+ 13.0
Switzerland	-0.73	+3.58	+ 1.09	+ 20.47	+17.07	+4.4
UK	-0.23	+2.80	+ 14.21	+ 18.09	+18.09	+5.3
EUROPE	+ 0.03	+ 3.08	-0.72	+17.88	+16.23	+3.0
Australia	+ 5.10	+ 6.40		+ 19.76		+20.0
Hong Kong	-1.66	-0.30		+23.29		+23.4
Japan	-0.44	+0.20	-10.17	+ 14.45	+25.77	+ 12.2
Malaysia	+ 2.47	+0.69	+ 12.04	+ 14.25	+25.93	+17.3
New Zealand	+ 4.36	+ 14.27	-20.94	+ 14,74	+28.85	ي. + <u>ني</u>
Singapore	+5.07	+ 3.69	+ 1.33	+30.22	+42.91	+27.5
Canada	-0.04	+ 0.98	+2.66	+ 5.44	+18.73	+ 5.9
USA	+ 1.06	+4.71	+ 14.00	+ 16.90	+31.01	+ 16.9
Mexico	+ 9.52	+ 30.61	+ 142,31	+61.89	+78.60	+59.3
South Africa	+0.35	+2.16	-7.70	+8.80	+24.86	+11.4
WORLD INDEX	+0.33	+2.70	+1.17	+16.26	+ 25.28	+417

By Antonia Sharpe

7 ALL STREET's historic breach of the the direction of the FT-Actu-Overall, it rose 0.3 per cent in local currency terms. Excluding the US, the world was 0.1

per cent lower.

Japan held the world back in spite of reports in midweek that the central bank was loosening its monetary policy. Speculation of an early cut in interest rates was fanned by last Friday's release of better than expected March money

supply figures.

From a technical standpoint the Nikkei average was unable to break decisively through

to break decisively through the important 27,000 mark. Without Japan the world index would have risen 0.7 per cent last week. The best performer of the week and of the year to date was Mexico, which put on 9.5 per cent and 62 per cent respectively in local currency terms. Mr Jeremy Campbell-Lamerton of Baring Securities Lamerton of Baring Securities attributed the advance to

Telmax, the telephone monopoly and a rise in foreign investment on optimism that the Free Trade Agreement between the US and Mexico will succeed.

make an international offering of its remaining Telmex share next week, expected to raise over \$2bn. Telmex has risen over 50 per cent to over \$3 in the last month and now accounts for one-fifth of average daily market volume of \$32m. However, it showed signs of tiring last Friday, which could herald a much-needed rest for the market, Mr Campbell-Lamerton says.

Interest rates continued to steer most stock markets last ek. Hopes of an early cut boosted Australia 5.1 per cent and New Zealand 4.4 per cent local currency terms, while in local currency perms, while receding hopes of a reduction cost France a fall of 1.5 per cent and rising domestic rates left Sweden 2.2 per cent lower.

Hong Kong lost 1.7 per cent on worries about the new airport project following the received.

stalemate in negotiations between the UK and China.

DOLLAR RIDEX

All these Securities having been sold, this announce ment appears as a matter of record only.



MINOLTA

Minolta Camera Co., Ltd.

Osaka, Japan

DM 200,000,000 5 1/2 % Bearer Bonds due 1998 with Bearer Warrants attached

DAIWA BANK

(DEUTSCHLAND) GMBH

FUJI BANK (DEUTSCHLAND)

AKTIENGESELLSCHAFT

KOKUSAI EUROPE LIMITED

MORGAN STANLEY GMBH

WESTDEUTSCHE LANDESBANK GIROZENTRALE

DAIWA EUROPE (DEUTSCHLAND) GMBH

BHF-BANK

MITSUI TAIYO KOBE BANK (DEUTSCHLAND) GMBH COMMERZBANK AKTIENGESELLSCHAFT

CSFB-EFFECTENBANK AKTIENGESELLSCHAFT

DRESDNER BANK AKTIENGESELLSCHAFT

KLEINWORT BENSON LIMITED

J.P. MORGAN GMBH

NOMURA BANK

(DEUTSCHLAND) GMBH

SCHWEIZERISCHE BANKGESELLSCHAFT (DEUTSCHLAND) AG

SALOMON BROTHERS AG

SHINYEI ISHINO EUROPE LIMITED

TOKA! BANK (DEUTSCHLAND) GMBH UNIVERSAL (U.K.) LIMITED

YAMAICHI BANK (DEUTSCHLAND) GMBH

CREDIT LYONNAIS SA & CO (DEUTSCHLAND) OHG

DEUTSCHE BANK **AKTIENGESELLSCHAFT** GOLDMAN SACHS INTERNATIONAL

KYOWA SAITAMA FINANCE

INTERNATIONAL LIMITED

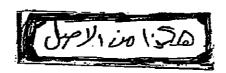
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(DEUTSCHLAND) AG TAKUGIN FINANCE

S.G. WARBURG SECURITIES



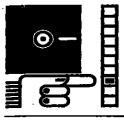
FINANCIAL TIMES SURVEY

THE COMPUTER INDUSTRY

SECTION III

Tuesday April 23 1991





The effects of recent changes in the computer industry have been shattering for many companies.

Almost every mainframe or minicomputer manufacturer in the US and Europe is demonstrating declining profitability, if not actual losses. Alan Cane reports

On the brink of disaster

THE WORLD'S large computer manufacturers have become used to rehearsing the superficial reasons for the present crisis in the information technology business, a malaise which has brought many of the bestknown names in data process-ing to the brink of disaster.

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Ltd.

The spread of open systems,

computer networks based on standard industry components which cannot command the gross profit margins inherent in proprietary designs. The gross margin built into a mainframe computer sale can be 70 per cent or more; for PCs and workstations, it can be less

A seemingly never-ending

decline in the cost and growth in the power of data processing equipment which has further squeezed manufacturer's margins. A high performance workstation can cost less than \$1,000 for every million instruc-tions per second (mips) of com-puter power. Mainframes typi-cally cost more than \$100,000 per mips. For many, but not all, tasks it is possible to sub-stitute low cost workstation power for mainframe power.

• The growing importance of service suppliers and systems integrators who put together hardware and software from disparate sources to satisfy their customers' requirements. New competitors for the traditional industry as a result of this change include management consultancies such

• A slackening in demand for computer systems which has been apparent in the US for some time and is becoming evident in Europe. The reasons are complex; they include saturation in some areas of the market, dissatisfaction with the results of continued computerisation and, in the UK at least, high interest rates.

Anderson Consulting and Price Waterhouse as well as software

houses and value added resell-

The effects of these changes have been shattering for many companies. In the US, Unisys,

the result of a merger between Sperry and Burroughs only five years old, lost \$436.7m in 1990 and suspended payment of dividends on both its common and preferred stock in an attempt to reduce debt which stood at \$3.7bn at the end of

that year. In Europe, Groupe Bull, the French state-owned manufacturer announced a loss of £700m for 1990 and said the French government had agreed to provide £400m in capital support to the company over 1991-92 in addition to £270m earmarked for research and development into Bull's open systems designs. Unisys and Bull are simply

the most spectacular victims of the sickness affecting the industry; almost every mainframe or minicomputer com-pany in the US and Europe is demonstrating declining profitability if not actual losses.

Earnings per share at IBM, the world's largest computer company, for example, have been on a plateau for six years now. The company has spent more time and money than most over the past three years in attempting to bring its expenses into line with sales, but earlier this month it shook the stock market with a warnter that the time to the first factor. ing that its sales in the first quarter of 1991 would be signif-icantly weaker than expected;

Wall Street analysts were downcast after the company's apparently strong recovery in

The key to what is happen-

Facets of modern computing: automated workstation manufacture at ICL (left), stock recording (centre) and computerised paint-spraying at General Motors

ing is the uneven nature of the picture. Suppliers of PCs, workstations and high powered small systems have not been damaged to anything like the same extent as maintrame and same extent as manurame and minicomputer manufacturers.

Compaq Computer, for example, the world leader in high powered PCs reported sales in 1990 of \$3.6bn, up 25 per cent from 1989, while net income was \$455m, up from \$232m the prefixer were the same was \$455m. \$333m the previous year. Its growth was chiefly driven by international sales, up 54 per cent, while revenues grew only 5 per cent in the US.

Apple Computer, a PC pio-neer which has tended to go its own way in technological development, had comparatively stagnant sales and earnings in 1990, but began a spectacular turnaround after the launch of new, aggressively priced computers featuring its proprietary "Macintosh" tech-

nology.

• Pyramid Technology of the US which makes high performance mid-range computers using the "Unix" operating sys-tem increased revenues by 93 per cent last year and its pre-tax profits by 110 per cent. The Pyramid machines are colloquially described as "Unix hot boxes": for prices between 534,000 and £500,000, they will outperform a mainframe. Other hot box suppliers include Arix and Sequent.

 New players are entering the industry, often from unex-pected directions. Nippon Steel, for example, the world's largest steelmaking concern has developed notebook com-puters which it is marketing in the US and Europe as part of a broad plan to diversify into computers and communica-

All of this is evidence that the traditional computer busi-ness is being displaced by a new industry, with which it has little in common, as surely as the traditional Swiss watching making industry was brushed aside by Japanese electronic timepiece manufac-

This new computer industry has its origin not in traditional data processing but in the semiconductor industry and its expression in PCs and work-

The traditional industry is characterised by proprietary computer designs which lock customers into individual sup-pliers; prices are set to yield high gross profit margins which are used to finance substantial direct sales forces These are the primary conduits between the manufacturer and the customer. Applications software is developed chiefly by the customer's own software staff, perhaps with the help of a software house.

The new industry is very dif-ferent. Machine designs are similar between suppliers because they are based on widely available, industry standard microprocessors. Most of the research and development work has been carried out by the semiconductor manufacturer. Compaq, for example, spends about half the industry average on research and devel-

opment.
Because margins are so narrow, direct sales forces are economically unviable and sales take place principally through "channels" – dealers, software houses, value added resellers and systems integrators. The key to success, as in the case of Compaq, is a strong positive relationship with the channel. Operating software is stan-

dard - usually a variation of the Unix system. Applications software is packaged, developed by software specialists who prefer to write programs which will run on a wide variety of machines rather than tie themselves to a single manufacturer.

The question, therefore, is whether the members of the old industry are sufficiently

in this survey The US view: Mobile computers

Building on laptop consolidate

Supercomputers Page 7 Reverse engineering: Conflict and compromis

Moore's law passes test

image problems Networking

Multi-media: Picture potential ...Page 15 Expert systems:

Editorial production:

Phillip Halliday

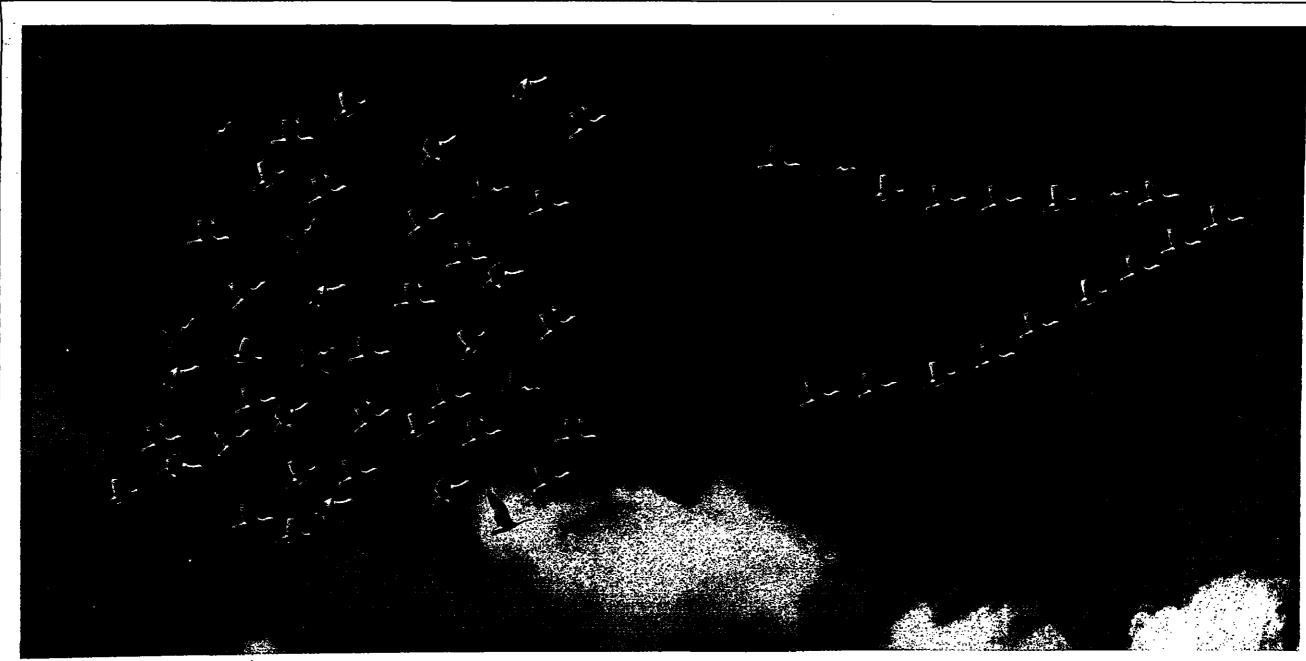
flexible to become new indus try players, or whether they are doomed to extinction. Against this background, arguments about the value of state aid to national champions appear increasingly redundant. At present, most experts

agree that only IBM is safe; it has the determination, flexibil-ity and, most important, the financial security to change course decisively.

The future of the Japanese

mainframe manufacturers, Fujitsu, Hitachi and NEC, IBM's chief competitors is unclear. They continue to prosper in their fast growing home market, but have yet to face the challenge of open systems and networked computing which is causing their Western competitors so much heartache. Swiss watchmakers found

salvation in fashion. An equivalent safe haven for the traditional computer industry is not



Which group will arrive first?

There's been a migration in business thinking. Whereas once it was enough just to have a sound strategy, solid operations and talented people, these days you need a means of tying them all together. That requires information technology. And no one can do more to help you effectively integrate all the components than Andersen Consulting. We approach technology from a

business perspective, allowing us to understand your particular situation.

Which means that instead of building only on technological strength, we can help you capitalise on all your strengths. Because these days, organisations that don't integrate don't fly.





Palmtop has the punch of a PC

HEWLETT-PACKARD'S palmtop computer, introduced today, is the size of a cheque book and weighs just 11 ounces but the HP 95LX packs all of the punch of an IBM-compatible personal

Built into the HP pocket-sized computer is Lotus 1-2-3, the most popular spreadsheet program. In addition, a phone book and

into the HP palmtop. Further programs can be loaded by inserting solid-state memory cards. A plug-in demodulator unit enables the HP 95LX to receive text ages from cellular paging systems.

It is aimed at technical and scientific users of its desktop PCs, and offers the power of a machine 10 times its size.

ON-LINE TRANSACTION PROCESSING

Technology advance drives sales growth

processing has grown to encompass a full third of world computer market since its beginnings in airline reserva-tion systems and banking. se interactive computer

range of business applications, from production management to customer service. With sales last year of approximately \$40bn worldwide, OLTP is growing at an annual rate of about 20 per cent and will be a \$72bn market by 1994, accord-

Growth in the OLTP market is being driven by its broaden-ing use in telecommunications, manufacturing and retail industries, which have become big users of OLTP. Technology

Digital Equipment's OLTP revenues grew by some 35 per cent to \$2.1bn in 1990

advances in parallel processing and microprocessor performance have downsized OLTP. creating applications and making this mode of computing available to small and medium sized businesses as well as

large corporations.
OLTP has been impacted by the trend toward open systems based upon the Unix operating system. Unix-based OLTP will grow to between \$18bn and \$21bn by 1994, according to Dataquest, the market research company.

The emergence of relational database management systems software has been a driving force in the growth of OLTP. These programs, which enable users to access information wherever it resides in a datase, have become the basis for a broad range of business applications running on OLTP

'Fault tolerant", or "high sent an important segment of the OLTP market. As businesses entrust their most criti-cal functions to computer systems, the reliability of the systems and their ability to continue functioning through power failures, component failures, software updates and all manner of events that can bring the average computer to ees has become vital.

Traditionally, OLTP systems have been based upon main-frame computers with international Business Machines claiming the lion's share of the market. IBM holds an estimated 55 per cent share of the OLTP market, largely based upon its dominant role in mainframe computers. While IBM is expected to remain the market leader, its share of the OLTP market will decline, according to industry analysts, as microprocessor-based parallel processing systems - many of them running the Unix operating system - displace traditional mainframes.

Tandem Computers, plo-neered the "fault tolerant" computer market selling its proprietary computers to banks and securities companies. Lower spending in the financial services industries have hurt Tandem's earnings over the past year but with 1990 revenues of \$506.1bm the company remains the market leader in fault-tolerant comput-

Last year, Tandem introduced its first open systems products, offering a range of Unix computers based upon Mips Computers Reduced Instruction Set Computer (RISC) chips. In addition to selling its Unix computers direct to end users. Tandem signed an agreement with AT&T under which the telecommunications and computing company will resell the Tandem products.

Biting at the heels of IBM and Tandem are a new genera-tion of specialist OLTP computer companies led by Stratus Computer, Sequent Computer Systems and Pyramid Technology. Stratus specialises in what it terms "critical on-line com-puting" or high availability computing for mission critical applications.

Stratus's stronghold is in the financial services industry where it provides systems for stock trading, automatic teller networks and credit card authorisation. Stratus is, how-ever, expanding its customer base in other fields such as retailing, manufacturing and elecommunications. Stratus recently launched a

new product line based upon Intel's 860 Reduced Instruction Set Computing (RISC) micro processor, following a trend toward the use of high performance RISC processors in OLTP. The company is also making a transition from a proprietary operating system open systems based upon he Unix operating system.
Some 20 per cent of Stratus's \$404m 1990 revenues came via IBM, which sells Stratus computers on an OEM basis. Over the past year, however, Stratus's business with IBM has flattened as IBM increasingly targets "mission critical" appli

cations with its own comput-Stratus expects to expand its pensate for the IBM shortfall. The company is in particular targeting the emerging market

Unix-based OLTP will grow to between \$18bn and \$21bn by 1994, says Dataquest

for computers to control "intelligent networks" as deregulated telephone companies offer new services such as store and forward facsimile, free-phone numbers and voice aging services.

Sequent Computer Systems products, based upon the Intel line of microprocessors running a version of the Unix operating system, demonstrate the price and performance advantages that microprocessor-based parallel processing has over traditional main-

Sequent's Symmetry 2000 family of computers, introduced in January, incorporates up to 30 of Intel's latest 486 microprocessors and achieves mainframe class performance at what the company claims is an 80 per cent price/performance advantage over other Unix mainframe computers and an even greater edge over

traditional proprietary main-

frames. The 8-year-old Sequent, with 1990 revenues of \$249m, has built its business upon auto-mating applications that can-not be cost-effectively handled by a mainframe computer. Examples range from a currency management system for British Airways to an emer-gency room scheduling system for a California hospital.

Pyramid Technology, another OLTP specialist, achieved a remarkable 73 per cent growth in revenues in fiscal 1990, to reach \$180m for the year ending last September. Pyramid, of the Silicon Valley, about to launch a range of products based upon Mips Computer's RISC microproces-

World OLTP sales last year reached \$40bn and are growing at 20 per cent annually

While the niche players of the OLTP market are making inroads, the big companies of the computer industry are not standing still. Unisys, tradi-tionally a large supplier of mainframe-based OLTP and also a re-seller of Sequent com-puters, last week unveiled hardware and software prod-ucts that establish its strategic direction toward open-systems based OLTP.

Unisys expanded its product line with mid-range systems, which it will manufacture in-house. Based on the Intel 486 with up to five processors, the new Unisys 6000/65 has a peak performance of 118 MIPs and will run the latest version of A T & T's Unix, System V.4. Unisys also unveiled new Unix OLTP software including an improved version of A T & T's "transaction manager" which will improve performance and reliability, the

company claims. Digital Equipment's OLTP revenues grew by approximately 35 per cent to \$2.1bn in

mately 35 per cent to \$2.10n in 1990, according to analysts at Hambrecht & Quist, the San Francisco investment bank. Digital is emphasising fault tolerance. DEC launched its first specifically fault-tolerant computers early last year but according to industry analysts the products failed to have a significant impact on the marsignificant impact on the mar

Last month, DEC unveiled its second generation fault tol-erant products - a new range of aggressively-priced VAX minicomputers designed for mission critical applications which analysts predict will do much better. Hewlett-Packard is also taking a stab at the fail-safe computer market through an investment in Sequoia Systems, a small manufacturer of fault-tolerant com-

HP will resell Sequoia's machines and gain access to its technology. As competition mounts, the OLTP market will become increasingly segmented, analysts predict. Increasingly, the ability to perform OLTP will become a prerequisite of commercial computing systems or all sizes.

New generation challenges leaders

THE US computer industry is in the midst of a broad restructuring driven by technology advances that have changed the economics of computer manufacturing.

Some of the largest compa-nies in the industry are being forced to make painful adjustments, while a new generation of computer makers is growing rapidly. Making these changes more difficult for all computer companies are the triple troneconomy, European economic ills and the interruption of normal purchasing patterns created by the Gulf War.

The effects of these problems are being keenly felt by many US computer companies, creating an industry downturn in which revenue growth has been stalled and earnings are expected to decline in the short expected to decline in the short term. While these economic problems are expected to be short lived, the fundamental changes under way in com-puter technology could reshape the industry in the 1990s, analysts predict.
The most important technol-

ogy trend is the rising power of the microprocessor — the "computer on a chip". The ini-tial impact of the microprocessor was to create the personal computer, spawning a new generation of computer companies in the 1980s such as Apple Computer, which has annual pag Computer with \$3.6m.
Networking technology,
which enables large numbers
of PCs to be tied together so

that they can share data, transformed the PC from a stand-alone single user machine into an important element of office automation systems.
The PC has had a large

impact upon the way computers are used in offices. They have greatly expanded the use of desktop computers and to a significant extent displaced the minicomputer and computer terminals as standard office automation equipment. The computer workstation, also based upon microprocessors, has had a similar impact upon the technical computing field. Engineering workstations

running computer-aided design programs, for example, have usurped the role of mid-range computers in thousands of laboratories and product development departments. Sun Microsystems, the workstation market leader, has established a \$2.5bn market for high-powered desktop computers based upon Reduced Instruction Set Computing (RISC) microprocessors, largely at the expense of traditional computer companies such as Digital Equipment and Hewlett-Packard.

However, the inroads of the microprocessor have just pegun. High-powered computer systems that rival the system performance of mainframes built using multiple micropro-cessors. Companies such as sequent Computer can offer mainframe-class computers built around Intel microprocessors at a fraction of the cost of IBM mainframes.

Stratus Computer Systems is challenging IBM and Tandem Computers in the market for fault tolerant computers for mission critical applications

IT Industry World Market 1**092** \$649 Pillion 1989 \$433 Billion Historical Growth 15.5% Forecast Growth 14.5% ☐ ROW 10% ■ Europe 30% ■ Japan 13% ■ US 44% □ ROW 10.5% Europe 31.5%
Japan 14% **By seament 1989 \$433 Billion** 1984 \$212 Billion

Peripherals 26% Datacomms 3% PC Software 4%

using computers built around Motorola and MIPS Computers microprocessors. This phenom-

has had an impact on the

Brothers, in a recent report on

puter industry. "Multiprocessor systems will directly threaten maintrame and mini-

computer solutions," he says. "Relational data bases can

transform data into informa-

tion. Object-oriented program-

ming will reduce the applica-tions backlogs that plague

every level of computing. And

sophisticated networks will allow users to access data

seamlessly across the enter-

prise. Those vendors that can bridge these discontinuities to

technologies, while protecting

prior investments, will benefit

the most," he says. However,

hardware is only one side of the computer industry. Soft-

ware and services are growing faster and have higher profit

Companies such as Elec-

the wave of the computer ser-

vices rise, providing computer users with solutions to their

increasingly complex informa-

the reshaping of the computer industry is the trend toward

open-systems standards that

enable different types and

brands of computers to work

more efficiently together. With

Another driving force behind

tion technology needs.

entire computer industry. "The microprocessor has turned hardware computer eco-nomics upside down," says Mr Steven Milunovich of Solomon

known as downsizing

Software 27%

EPC Software 4.5%

EPC Software 4.5%

EPC Software 4.5%

EPC Software 5.5%

Services & other Software 38%

EPC Software 5.5%

EWOrkstations 1.5%

Services and 4%

Services and 4% ☐ Datacomms 3.5% ☐ PC Software 4.5% ☐ PCs 13.5%

S Services and other Software 38.5%
Minis & Mainframes 13.5%
Workstations 3%

Leading worldwide computer companies 1984 vs 1989 (\$bn)				
1984	Data proc. revenues	1989	Data proc. revenues	Change in rank
1BM	42.6	IBM	57.3	_
DEC	6.3	DEC	12.9	-
Burroughs	4.5	Fujitsu	12.3	+2
Sperry	4.0	NEC	11.5	+5
Fujitsu	3.7	Unisys	9.3	-2
Control Data	3.7	Hitachi	9.3	+6
NCR	3.6	HP	8.2	+1
HP	3.4	Groupe Bull	6.5	+9
NEC	3.3	Apple	5.4	+5
Siemens	2,8	NCR	5.2	-3
Wang	24	Olivetti	4.9	+2
Hitachi	2.2	Siemens	4.7	-2
Olivetti	21	Toshiba	4.6	+12
Apple	1.9	Compaq	2,9	New
Honeywell	1.8	Matsushita	2.8	New
ICL	1.6	Philips	2.8	+3
Groupe Bull	1.6	Nixdorf	2.8	+6
Data Gen.	1.3	Wang	2.7	-7
Philips	1.2	ICL	2.7	~3
Commodore	1.2	EDS {	2.4	New
TR₩ j	1.2	Canon	2.3	New
Xerox	1,2	Xerox	2.2	-
Nibodorf	1.2	TRW	2.1	-2 .
LM Ericeson	1.1	Amdahl	2.1	New
Toshiba	1.1	Sun	2.1	New

a variety of motives, the vast majority of computer companies are pursuing open systems, with varying degrees

For many, open systems represent an opportunity to infil-trate the customer bases of industry leaders such as IRM and Digital Equipment, HP and Unisys. The industry leaders have adopted open systems in part as a defensive move. They view open systems as a means of providing customers with complete solutions to their computing needs.

One of the critical needs of the 1990s among computer users, is to find a way to tie together their inventories of cally been acquired in a rather haphazard fashion.

During the 1980s, distributed computing was in vogue. Departments of large corpora-tions frequently installed their own computer networks or systems often with little reference to the corporate data processing centre. Now, companies are trying to tie these computers together to create

Enthusiasm for open ystems and the trend toward lower-cost computer power leads some to conclude that the large US computer hard-ware companies are dinosaura. This is to ignore several factors. While the mainframe computer is challenged by new technologies, it remains a dom-inant sector of the computer industry providing, for example, about half of IBM's \$69bn

annual revenues. Open systems, based upon the Unix operating system, are certainly becoming more popular, but they represent only 12 per cent of annual computer sales. The ability of established industry leaders to adjust to rapid changes in the computer industry is frequently brought into question, but IBM is turn-ing itself slowly but surely to address the issues of the com-puter market head on. IBM is focusing upon solu-

tion selling, reorganising its business units to more directly address the problems of its costomers. Perhaps the best mea-sure of IBM's success comes from the large systems integra-tors, who regard IBM as a

IBM has long been the man-ket leader in the PC sector, which it quickly recognised as hig new market opportunity in the early 1980s. In the comter workstation market, IBM has made a late, but remarkably successful entry. Last year, the company sold \$1bnworth of its RS/60000 workstations, leaping from nowhere to become the fifth largest work-station supplier. This year, IBM is expected to climb to number two or three in the workstation market and by 1993 will be neck and neck with Sun Microsystems, the market leader, according to

market leader, according to industry analysts.
Digital Equipment is undergoing a painful metamorphosis. After suffering a period of internal strife between supporters of open systems and traditionalists, Digital is putting together a coherent strategy. Digital maintains that egy. Digital maintains that open systems must incorporate proprietary software if the promise of the open systems among dissimilar computers - is to be fulfilled.

Standard proprietary systems which adhere to stan-dards that allow inter-operability, represent the way of the future, many in the industry believe. Computers such as Digital's VAX would retain their distinct features, but acquire the ability to work with other types or brands of computers. HP, the third largoverhauled its computer product line to take advantage of respond to the open systems

Similarly, NCR and Date General have developed aggressive open systems strategies. Unisys, in spite of financial woes, is pursuing open systems. It is too soon to count out the US computer industry leaders of the 1970s, but it seems certain that they will be forced to concede a bigger share of the market to the companies that emerged in the

MOBILE COMPUTERS

Lightweights that buck the trend

desktop personal computer was still in its infancy, there have been numerous attempts to create "portable" versions of PCs. Only recently, however, have semiconductor, data storage and display technology advanced to the point where a fully-functional PC can be packaged in a compact, lightweight, carry-along unit.

These technology advances are creating an increase in sales of laptop, note-book and pocket computers, with world-wide sales expected to top \$8bn this

The market for mobile computers has become one of the fastest growing sectors of the computer business. The increase in mobile computer sales comes as sales of desktop personal computers are beginning to sag, particularly in the US.

By the mid-1990s, portable computers will represent close to 50 per cent of all types of PCs sold, market analysts pre-dict. In Japan, laptop computers account for over 40 per cent of all PC sales. In Tokyo's crowded offices the smaller laptop computers are widely used on the desktop. Europe is also caught up in the

mobile computer revolution with unit sales expected to rise by over 30 per cent this year. Spurring much of this growth is the new category of notebook computers - battery-powered machines that are small enough to fit in a briefcase and weigh 8 lbs or less.

More than \$40,000 notebook comput-

ers were sold in the US in 1990, according to International Data, a research company. It predicts that sales could rise to 1.4m units in 1991 and rise to 6.2m by the middle of the decade. The US portable computer market

has so far been dominated by Compaq Computer and Tandy of the US, the Zenith DataSystems division of France's Groupe Bull, and Japanese makers Toshiba and NEC. However, over the past year, as many announced new portable computers.

Many have yet to deliver these products with delays blamed on shortages of displays, disk-drives and microprocessors. Also entering the portable com-puter fray are some of the largest US and European computer manufacturers.
International Business Machines recently unveiled its notebook com-

puter in its third attempt to find a place in the portable computer market. The IBM Personal System/2 L40 SX notebook computer is slightly larger and heavier than most products in this cate-gory, but it is designed to provide the full functionality of the current genera-tion of desktop computers, whereas many notebook computers compromise and price. The IBM notebook features a full-size

keyboard virtually identical to that found on IBM's PS/2 desktop PCs; a standard memory of two megahytes and maximum memory of 18 MB; a 60 MB hard drive and a 10-inch Video Graphics Array (VGA) display. All this comes in a 7.71b package priced in the US at

The recent entry of IBM into the notebook computer market, and the anticipated announcement by Apple Computer this year of notebook-sized versions of its Macintosh computers are expected to expand sales rather than to

unseat established suppliers.
Digital Equipment, Unisys, NCR and
American Telephone & Telegraph are expected to launch mobile computer products this year. Portability still comes at a premium price, with most mobile computers up to 50 per cent more than equivalent desktop machines. Competition is spurring price cuts with some companies such as AST Research offering substantially lower prices on notebook computers. Technology advances are signifi-

cantly expanding the capabilities of portable computers. Flat panel colour displays have as 40 computer companies have recently been introduced by Toshiba

and other leading portable makers.

The portable computer of the future will incorporate "wireless communications" according to many industry experts. Last month, NEC of Japan introduced one of the first portable computers with wireless communications. The 6.6 lb laptop computer incorporates a radio transceiver which enables it to send and receive messages without a phone line.

NEC is offering the wireless com-

tter only in Japan. Leading US computer makers also see radio communi-cations becoming an important feature of portable computers in the future.

Apple recently filed a petition with
the US Federal Communications Commission (FCC) that, if approved, would
let computers transmit and receive information over radio waves instead of through a wired network.

For today's users of portable computers, wireless communications represent a potential solution to the difficulties of hooking portable computers up to telephones. While desktop personal computers that incorporate a model gener-ally have their own phone line, the portable computer must be plugged into a phone in whatever location the user

Yet to be resolved is one of the toughest technical challenges of building por-table computers - short battery life. Although power-management systems and low-power components have signifi-cantly extended computer battery life, battery technology is advancing only slowly, computer makers complain. A new category of PCs that is beginning to show promise is the hand-held

or pocket computer. This market has been pioneered by Poget Computer of Sunnyvale, California, whose 1.1 lb IBM-compatible PC fits easily into a coat pocket or handbag. The Poqet has been picked up by Infonet, the interna-tional value-added network provider, as portable communications terminal, for sending and receiving electronic mail and other types of messages.

et-sized computers creating new types of PC applications. These tiny computers are so unobtrusive, he suggests, that they could be used to take notes during a meeting. Their light weight also makes them suitable for use as an electronic appointments calendar or

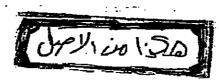
Also about to enter the hand-held omputer market is Hewlett-Packard. which this month will introduce a cal-culator-sized unit with a built-in version of the popular Lotus 1-2-3 spread-

On the horizon is yet another new type of portable computers known as slate computers. These notebook-sized devices will replace the familiar key-board with an electronic pen. The user will simply write on the "slate" or point to icons to select functions.

Numerous applications are envisaged for these pen-based computers among people who do much of their work while standing or moving around. Doctors and nurses might use them to update patients' notes or order tests, for cample. Software that enables the computer

to interpret hand-written notes has been developed by Go Corporation, a California start-up. Microsoft, the lead ing supplier of PC software, is also developing handwriting recognition software that could be used as an extension of its existing PC operating

Grid Systems, one of the pioneers of the portable computer market, offers a alate computer with limited handwriting recognition capabilities. IBM and Apple Computer have both expressed great interest in the potential for this new technology. Market researchers at BIS Strategic Decisions predict that sales of slate computers will top \$1.5bn by 1995 and could become a \$7bn market by the end of the decade.



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THE COMPUTER INDUSTRY 3

■ EUROPE: a crisis that knows no national boundaries

The shift to open systems unlocks sector

A series of stunningly loss is thought to be a record defensive, whole-page adver-tisements from Groupe Bull in Europe's leading newspapers last month highlights the crisis facing the entire Europeanowned computer industry. They were used to soften the impact of the announcement of Bull's FFr6.8bn (\$1.19bn) loss

in 1990.

Most of the leading players are trading at a loss. Those, such as Olivetti, that are still keeping their heads above red ink, are showing greatly reduced profitability. The crisis knows no national boundaries. of Germany: Siemens-Nixdorf chief executive Mr Hans-Dieter Wiedig warned last month that Europe's largest computer company, formed in 1990 from the alling Nixdorf Computers and Siemens' computer interests, would not make profits this year as he had hoped, nor was he prepared to say when it would become profitable. The difficulties of assimilating Nixdorf, which had losses of about \$636m in its last year as proved far greater than expec-ted. an independent company, have

Comparex, a joint venture between BASF and Siemens selling chiefly mainframes built by Hitachi of Japan, on the other hand, made post-tax profits of DM42m, 31 per cent up on the previous year.

France: state-owned Bull's



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for the industry in any one year. It is made up of a FFr3bn operating loss and restructuring charges of about FFr3.8bn. The company is already well advanced with an ambitious programme of corporate changes designed to restore competitiveness and vitality. It includes cutting the number of manufacturing plants from 13 to five, reducing staff by some 5,000 over the year and rationalising research and development and marketing.

● Italy: Olivetti has remained consistently in the black, but its profitability has been falling. Its 1990 turnover is not expected to show much advance on the L9.031bn recorded in 1989 and its profits are expected much below the L202.8bn announced that year. 7.000 Jobs from the workforce; manufacturing activities are being rationalised both in Italy and the rest of the world as are direct and indirect distribution

• The Netherlands: Philips is shedding some 50,000 staff worldwide; the resulting restructuring charges forced a loss of F14.2bn last year, the root cause, however, was heavy losses in the information systems division. Now Philips is moving away from computer systems of its own design to those built to industry stan-

● The UK: International Computers, Britain's largest information technology company, while still generating good profits, was bought from STC by Fujitsu last year, leaving telecommunications company free to concentrate on its core interests.

The deal with Fujitsu ca at the end of a series of abor-tive merger discussions between ICL and several other European-owned computer companies. Apricot Computers, manufacturing arm of the Apricot Group was sold to Mit-subishi Electric of Japan last

In a surprising reversal of fortune, both ICL and Apricot are now selling UK-designed and manufactured computers

Graphical User Interfaces

Windows to rooms

SYSTEMS for managing large amounts of information are becoming increasingly imporers. For example, the concept of overlapping "windows" on computer screens has become popular since its introduction a

decade ago.
In the US, the Xerox research centre at Palo Alto unveiled graphical user inter-faces (GUIs) 10 years ago to replace command-driven inter-faces which tend to restrict the working area of computer

screens with control codes.

The easier-to-use windowdriven GUIs enable various sources of information and tools to be worked on in separate windows for a single proj-

When numerous projects are under way, it can be difficult and time-consuming to shuffle round a clutter of overlapping windows. Now Xerox has developed the "Rooms" con-cept which takes the graphical user interface into a wholly new dimension.

The system puts all the windows that are relevant for a single task into a separate information workspace (or room), with linking electronic doors that allow users to work on many projects at the same time. The system also allows users to collaborate with differ-ent sets of people for each proj-

Xerox's graphical user interface has always been object-ori-entated - unlike many of today's icon-driven interfaces and is based around a concept of an electronic deaktop.
 The rooms concept is based on research by cognitive psychologists and computer scientists at the Xerox PARC research

"The system is based on the idea that personal computers are fine in their place, but what many workers and plan-ners need to get projects under way is a large table – a place to spread out files and papers for easy access," explains Mr Chris Lindesay, integrated systems manager at Rank Xerox.

The new system allows users to co-ordinate desktops: "With rooms, all you do is walk into your specific project office and you find it just as you last left it, with all your information close at hand," says Mr Linde-

The concept, which is now at the advanced development the advanced development stage, allows users to create a suite of rooms which can passed around, copied to disk or loaded on to other workstations. To assist users, an overview room is provided where users can see the layout of rooms on a single screen.

The system, which Xerox is demonstrating at this years which Computer? Show, sup-

which Computer? Show, supports the natural way people work, "rather than forcing them to change what they do to suit the limitations imposed by screen-sizes and windowing protections." Care Mr Lindesay tems," says Mr Lindesay.

Michael Wiltshire

May June

June

June

October

October

October

FINANCIAL TIMES 1991 RELATED SURVEYS

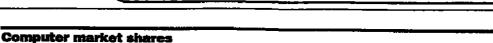
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FOR ADVERTISING INFORMATION CONTACT ANDY BARRONS 071-873-3201

FOR EDITORIAL INFORMATION CONTACT DAVID DODWELL 071-873-4090



Personal computers (professional), Europe Midrange systems, Western Europe Mainframes, Western Europe 1990 total: 5.838 million units panies such as Nixdorf which had been gearing up on the back of powerful sales of their

in Japan. Smaller manufacturers have been affected by the

Norsk Data of Norway and Nokia Data of Finland are going through extensive restructuring and job losses in their attempts to return to

profitability.

The plight of Europe computer makers is, to some extent, a reflection of the troubles afflicting every large com-puter manufacturer worldwide. Customers, especially gov-ernments and the armed forces, are beginning to move rapidly from traditional, main-frame-based data processing systems to so-called "client server systems" where the computing power is supplied by small computers and work-

There is growing demand for computers which can easily be connected into client server networks regardless of the manufacturer of origin. Industry standard or open systems are becoming preferred to pro-

The plight of the European computer makers is, to some extent, a reflection of the troubles that are afflicting every large computer manufacturer in the world

The shift in preference from proprietary designs to open systems took place with remarkable suddenness. It coincided with a rapid, but temporary, softening in many of the European markets Comof the European markets. Com-

important IT market though the US will remain dominant. According to figures from the consultancy Price Waterhouse, the world IT market was worth \$212bn in 1984; the US held 55

proprietary systems suddenly found themselves facing weak

markets with systems which were no longer in fashion. Europe will remain an

Japan 10 per cent with a simi-lar percentage for the rest of the world. By 1992, according to Price Waterhouse, the overall value of the market will have grown

The US share will have The US share will have shrunk to 44 per cent, the European share will have grown to 31.5 per cent with Japan and the rest of the world holding 14 per cent and 10.5 per cent respectively.

It seems likely that US and Japanese manufacturers will profit from the growth in the

profit from the growth in the European market, however, rather than the local champi-

views on what, if anything, should be done to support The French government which owns over 70 per cent of Groupe Bull has agreed to support its restructuring measures, but it understands that the company has to find a part-ner to share the load. There have been talks

between Europe's main players simed at establishing a single transnational computer company able to rationalise research and development costs and achieve continentwide economies of scale, but they have all foundered on issue of management and con-

Some, looking at the exam-ple of Unitys of the US, ques-tion whether putting together falling companies is anything more than a recipe for further

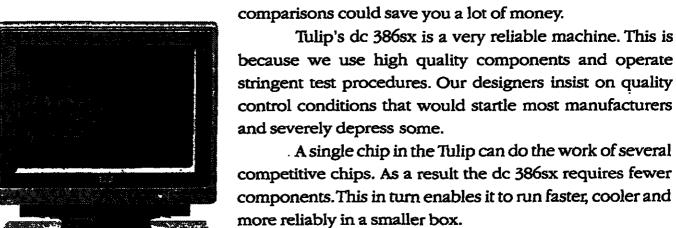
The European commission recently published a flercely-debated plan to make the electronics industry more competi-tive based on training, standards, bilateral agreements and collaborative research and development projects. No new money would be involved. In doing so, it has moved to more of a hands-off approach to encouraging competitive ness than earlier and unsuc-cessful interventionist strate-

gies.
The fate of ICL within the Fujitsu organisation is being watched closely as an example of the most extreme form of survival measure. It may not be too long before others are forced to follow suit.

Alan Cane

We could have made a bigger, slower, uglier machine for around £1,000 more. But the competition

All 386sx computers aim to offer 386 power at affordable prices. Some are clearly more successful than others. Here are some facts about the Tulip dc 386sx. Using them to make a few



You can see how slim it is. What you can't see is that its ultra-slimline casing is made not of plastic but high tensile steel. So much for how it's made.

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Advancing on many fronts

JAPAN'S computer makers are US makers are virtually nonbetting that the next genera-tion of computer users will fall into their laps - literally.

Japanese manufacturers believe their increasing supremacy in the production and sale of laptop computers will lead to a significant expansion of Japan's role in the overall computer market.

Japan's consumer electronics companies control half of the laptop and notebook market, the industry's fastest growing segment. And Japanese dominance of such critical technologies as disk drives and liquid-crystal-displays (LCDs), together with Japanese skill at shrinking components, has led such US stalwarts as IBM and Apple into joint ventures with

While laptops account for 13 per cent and 20 per cent of the European and US PC market respectively, they account for almost half of all PCs sold in Japan. Many analysts believe the European and US figures will double within three years. Japanese miniaturisation echniques are sure to help them lead the emerging palm-top and tablet markets. Japanese companies are increas-ingly dominant in disk drives, not only at the low end with hard drives for PCs, but at the

high end for mainframes.
The Japanese have worked bard to improve their software and service in Japan, and hope to begin exporting such skills in the near future. Even with their relatively limited pres-ence in the computer-systems and software market, Japanese manufacturers exported over \$20bn-worth of computer-re-lated products last year, some 85 per cent of which were in parts and peripherals.

Japanese makers are increas-

ing their control of high density storage systems as compa-nies such as Epson and NEC continue to gain share at the expense of small and mediumsize US makers. Japanese companies are certain to widen their dominant lead in display technologies, including those related to high definition tele-vision (HDTV).

Sharp, Epson, and NEC have clearly established themselves as the world's leaders in LCD technology. South Korea and Taiwan, their closest competi-tors, are years behind, while

growing in importance as HDTV-related systems are used in a widening variety of appli-cations, including workstations which are still dominated by US companies.

There's no use in having a Rolls-Royce engine if you have a poor monitor," says Mr Barry Dargan, an analyst at James Capel Pacific in Tokyo.

Japanese producers are forging ahead in other areas, including taking industry leader IBM head-on in mainframes. Japanese producers including NEC, Hitachi, Fujitsu, and Toshiba believe their growing presence in PCs will propel them into complete systems integration, particu-larly as the mainframe market

matures relative to PCs. NEC boasts the fastest super computer in the world, the SX-3. Japanese service net-works continue to trail their US competitors, notably IBM. However, Toshiba and NEC continue to improve their growing sales channels in the US, while Fujitsu's purchase of ICL has catapulted Japan's largest mainframe maker into the forefront of European sales and distribution network chan-

Although the Jananese still trail in the development of software for export, Japanese companies have become highly skilled at designing operating software systems for the Japanese market. Hitachi Fujitsu, in particular, have devoted significant resources to the development of world-

class software. Such investments will pay off in the future, particularly as the world moves in the direction of more open indus-try standards such as Unix, the operating system developed by AT&T which seems destin to become a world standard for

In the end, Japanese com puter makers greatest strength may be the growing dominance of other Japanese industrial sectors. As Japanese industries such as automobiles, pharmaceuticals, and steel continue to expand and automate, they are sure to bring Japanese computer makers along with them. "It's much tougher [for Japasan," says Mr Steven Myers, an analyst at Jardine Fleming in Tokyo. Given that PC use in Japanese offices is one half that of Europe and one quarter that in the US, Japan's internal market is poised for a period of explosive growth.

Japan's estimated Y7,000bn information technology market is the world's second largest, and is expected to more than double by the end of the decade. Most of the increase in sales will fall to Japanese makers. Japanese companies will continue to prefer to grow internally. However, more companies may resort to either taking equity positions or out-right acquisitions in fields in which Japanese companies trail, such as processing tech-nologies and software.

"The Japanese have to catch up in some areas and they know it," says Mr Dargan. "If they can't do it themselves, they'll engage in joint ventures or acquisitions." Joint ven-tures such as NMB-Intel are bound to increase as capital-starved US companies increasingly turn to their deep-pocketed Japanese competitors.
"Small West Coast tech

houses are vulnerable to being cherry-picked," says Mr Dar-gan, pointing to TDK's \$200m acquisition of Silicon Systems in 1989. Still, Japan's dearth of software programmers - esti-mated at 600,000 - is expected

to top 1m by the end of the

exclusion from three of the five European research consortia to which ICL belonged. Conse-quently, Japanese makers will continue the less risky strategy of supplying European makers on an OEM basis. "Japanese manufacturers realise they just can't take market share through competi-

century. Such a shortfall

argue most analysts, can only

partially be made up by sub-contracting work to Korea and

China and by buying small US producers. But Japanese com-

puter makers remain undaunted. If anything, the

only impediments most Jana-

nese companies see in the way

of their inevitable advance are

extremely wary of a political backlash in Europe following

its purchase of ICL and its

Fujitsu, for one, has been

mely wary of a political

tion alone," says Mr Dargan Japanese companies are diffus-ing proprietary technologies in south-east Asia as the Newly Industrialized Economies (NIEs) repeat Japan's previous policy of insisting on technol-ogy transfer in return for ss to their markets. US companies, burned by their liberal sharing of technology with Japanese companies in the past, are trying to

demand a more equitable shar-

Robert Tomkin.

■ THE JAPANESE IN EUROPE: a preference for joint ventures

Patient expansion continues

WHILE European information technology companies continue to experience difficulties, their Japanese counterparts are patiently expanding their presence on the Continent and in

Although Fujitsu's acquisition last year of ICL garnered the most beadlines, scores of Japanese companies are developing production facilities, creating sales networks and searching for potential joint

venture partners in the region.
"We very much respect the marketing and software canabilities of European firms, especially their network archi-tecture, says Mr Hideichi Nose, vice-president for European operations at NEC. Most observers believe that except for sales channels and some software, most European companies have little to offer

political cover. European information technology companies rank very low on the list of who the Japanese fear," says Mr David Benda, an analyst at Barclays de Zoets Wedd (Asia) in Tokyo. "The Japanese want to have a presence in Europe. But what

their Japanese rivals besides

can they get by acquiring a company? Not much, except for distribution," he adds. Japanese companies prefer to stay away from high-profile acquisitions, even friendly ones such as ICL. Instead, most concentrating on establish-

ing their own production and

"We have to be certain that investments in fields like semiconductors are welcome," says Mr Taizo Nishimuro, general manager for overseas operations at Toshiba. "It might be easier to go it 100 per cent alone or to buy out an existing firm, but it doesn't guarantee us that those actions will be welcomed by the com-

Most observers believe Toshtha will not be alone in co-operating with its European competitors. Olivetti may be forced to strengthen ties with various Japanese companies, including Hitachi which provides it with hardware on an OEM basis. Siemens sells Fujitsu mainframes and supercomputers, licenses Drams from Toshiha and given its distribution and service networks, is a natural match for a Japanese partner.

Meanwhile, Bull's increasing problems may force it to fully embrace NEC, which now pro-

vides the French company with mainframes. "Bull has to figure out what it's going to cut, what it's going to keep, and what it's going to source out," says Mr Steve Myers, analyst at Jardine Fleming (Securities) in Tokyo. "It's entirely conceivable, but not certain, that Bull will become dependent on NEC hardware and choose to add value through software," he says. Such arrangements – Japa-

sales networks, preferably in the form of joint ventures.

nese hardware and customised local software — are expected local software - are expected to increase as more production becomes application specific. Fujitsu has formed joint ven-tures with Quotient of the UK and the British subsidiary of McDonnell Douglas, to develop software for the banking and CAD/CAM industries respec-

> Toshiba is developing CMOS chips with SGS Thomson Microelectronics of Holland, while other Japanese producers are sourcing out much of their local software and design work. Moreover, even with higher capital costs and mounting overcapacity in the memory chip market, Japanese companies have not ahandoned direct investment. NEC plans to begin construction of a new computer production facility in Germany and has just completed upgrading its plant in Scotland to produce four mega-

bit Drams. Fujitsu will soon finish a new production facility in Dur-ham in northern England to produce similar chips. "Investment has slowed,"

admits Mr Mike Jeremy, an analyst at Baring Securities (Japan). "But not as much as had been expected."

Many analysts argue that one of the attractions of western Europe is its position as a springboard for eastern European market. Over 60 per cent of Japanese products sold in eastern Europe are shipped from Japanese subsidiaries in

"Naturally, because of its proximity and its similar cul-ture we do feel entering eastern Europe is easier through the west, especially Germany," says Mr Nishimuro. As personal incomes grow in the former Comecon states, the market will shift from large-scale infrastructure projects (a rela-tive European strength) to consumer-driven purchases sure to favour the Japanese, say most analysts.

Moreover, some Japanese companies are attracted by the East's low wages and relatively well-educated workforce. Such allures may lead many Japa-nese companies to shift much of their assembly operations to the east, and to concentrate on more value-added production

"To the extent you put semi-

conductor production into western Europe, board stuffing can then be done where it's cheapest," says Mr Myers.
Political uncertainties

remain the greatest fear among senior executives in Tokyo. Fujitsu, in particular, is wary of projecting a high-profile image. ICL is a different company," says Mr Yuri Momomoto, of Fujitsu. "They have their own plans which we don't know about." Regardless, except for political sensitivities, and perhaps being privy to the setting of standards. most Japanese companies seem unconcerned with being shut sortia, largely because Japa-nese companies have much more to contribute than the eans themselves.

"It doesn't make sense to keep out the Japanese," says Mr Jeremy. "The Europeans will lose the opportunity to monitor them. It's a two-way street. It's no more Machiavellian than that."

In addition, many argue that dictates from Brussels may ultimately backfire. A 1990 decision by the European Com-mission setting minimum prices for Japanese chips alleg-edly being dumped in Europe may help Japanese producers beset by falling prices in the same way a similar 1985 US decree (now expired) rescued a Japanese chip industry drown-

ing in its own overcepacity.

Moreover, adds Mr Benda, as
Europe continues to insist that nore products be manufactured locally, more Japanese companies will come, posing a companies. Others argue, however, that even if Japanes companies were to show that they are "politically correct" by participating in projects such as the research consortia, it is doubtful that they would be willing to share any of their most advanced technology something they have never done in the past.

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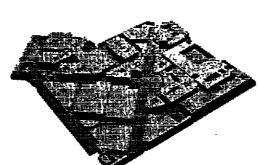
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"There must be another mechanism by which the Japa-nese are forced to share some of their technology," says a Tokyo-based industry observ "If the Europeans don't band together and try to do some-thing then they may as well throw in the towel."

Robert Tomkin

nese computer makers] to sell to GM than to Toyota or Nis- | Toshiba's T19000SE notebook portable can be battery or mains operated. It weighs 2.7kg and is fractionally larger than A4 size

Smau means information technology both hardware and software. telecommunications, telematics, office automation, side shows and conferences, and the 24th Smau Industrial Design Award. In 1990 Smau welcomed more than 900 exhibitors coming from 27 countries, representing 2,200 brands,



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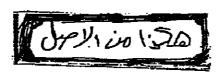


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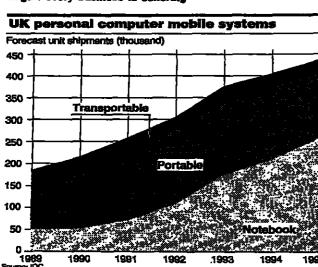
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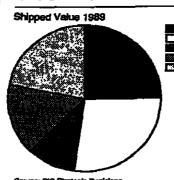




■ UK: an industry still to be reckoned with

Take your partners and consolidate

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vetti empire.

no longer a force to be reck-oned with. Not only have some

British computer companies,

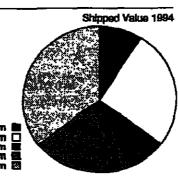
notably Amstrad, survived the market consolidations of the

1980s, but leading interna-

tional manufacturing facilities have come to the UK.

own specialist markets.

Government \$5.8m Banking \$6.4m Manufacturing \$2.4m Other \$3.7m



THE British computer industry is not what it once development of open computer

International Computers ICL, for example, has been behind a push in both the pub-lic and private sector over the Limited (ICL) is owned by Pujitsu, Apricot has sold its computer hardware division to Mitsubishi, Sinclair Research past few years to encourage the use and evolution of stanis now part of Mr Alan Sugar's dard, open computer systems in the powerful mid-range and high-end mini and mainframe Amstrad computer organisa-tion and Acorn Computers has long been part of the large Oli-That does not mean that it is

However, it seems that the open systems aren't always good news for UK computer nterests. According to Mr Tim Taylor, marketing director of ACT-Logsys, it is open systems which played a large part in inducing Apricot to sell its hardware division to Mitsubi-

In addition, smaller, home-grown companies with innova-ACT-Logsys, a new company formed from a part of Apricot which was not sold off, speci-alises in consultancy and sup-port for large public and priproducts, such as London-based Paion have tive hardware and software This has taken place against a background of declining govvate sector clients.

One of the reasons we cided to find a partner for Apricot hardware was that with standardisation and gio-balisation, it was getting much harder for a UK supplier to survive on a worldwide scale," says Mr Taylor.

That search for a norther eventually led to Mitsubishi buying the company. He adds that the drive for standards has somewhat levelled the technology playing field and is forcing many of the smaller players to move into specialist markets to survive.

Ironically, as computer com-panies founded by British nationals have either been sold or folded, international companies, such as Compaq Computer and Comor Peripherals have moved in to take their places.

Compag, in particular, has seen a spectacular rise to sucseen a speciation rise to suc-cess for its UK company— headed by Mr Joe McNally, UK-born managing director. Mr McNally says that, in many ways, Compaq in the UK is just as much of a British com-Compaq has spent more

McNaily: Compaq in the UK is just as much of a British company as ICL was

than \$76m on its Scottish man-ufacturing facility in the past three years. Compaq has built up an annual UK turnover in to a combination of the revenues generated by the factory and the company's sales in the

It was perhaps a sign of the times when Compaq found wholehearted and very senior UK government support for location of the factory in Scotland — although other Com-paq. European—subsidiaries were lobbying heavily to have

it elsewhere.

Mr McNally recalls fondly one of the main elements in finally clinching the deal to build in Scotland.

"Former prime minister Mrs Margaret Thatcher personally put pen to paper and wrote to our US chairman Mr Rod Canion," says Mr McNaily.

That played an important role in terms of him deciding to come here - although we in Scotland office," adds Mr

as heavily as it has in the UK has produced a lift in sales to public sector bodies, which have in the past largely turned to Apricot for their personal

He says that public sector sales for Compaq in the rest of Europe account for only 8 per cent of its business. In the UK, that figure has recently risen to 18 per cent.
"Clearly the Scottish factory

has been an influence," he sug-gests. But while Compaq is enjoying the benefits of increased public sector and corporate sales, the recession has hit the lower end of the PC industry hard, particularly in the retail sector.

IBM-compatible PCs have become commodity consumer electronics products and suffer the same ups and downs as home fax systems, stereos and satellite television. Amstrad, at the moment, but everyone is suffering," admits Mr Alan Sugar, Amstrad founder and chairman. "But that's no con-solation. It's been bloody slow

and probably will be for the next six or seven months -even if interest rates drop 2 or 3 per cent. It was a bad January and February and the satellite business suffered in February. Things are starting to move again, but not in the volumes we had before Christmas," he says.

Mr Sugar, however, has howeved back many times

bounced back many times before and is expected to perore and is expected to weather this recession well. At last month's CeBIT exhibition in Germany, he bullishly announced three new products designed to help lift his share of the portables and small desktop computer mar-kets and to pioneer participa-tion in the colour laptop com-

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■ THE SCHOOLS: anxiety for the class of '91

Unsatisfactory term, must try harder

THE UK schools' computer business has been going through an unsatisfactory term and there seems little prospect of improvement in the near

The two principal manufac-turers in the sector, Acorn Computers of Cambridge and Research Machines of Oxford, have been monitoring their sales figures anxiously as the financial year draws to a close and are becoming convinced that economic circumstances and legislative changes are conspiring to force into decline a market which normally expands reliably if unspectacu-

Mr Michael Fischer, chair-man and chief executive of Research Machines, said the sales bonanza which usually characterises the first three months of the year had failed to

materialise. "It is pretty bad news for us," he said, adding that the sales decline was disappointing after the company's record results last year. Its turnover was £63m with pre-tax profits of £3.25m.

Mr Sam Wauchope, managing director of Acorn Computers, said sales had been uneven through the year. He did not think there would be a first-quarter sales increase and overall he believed total

spending in schools would decline. School computer sales normally surge in the first quarter of the year because, with the

The usual sales bonanza of the first three months of the year has not materialised

end of the financial year in sight, special grants for com-puter purchase, worth perhaps film to f2m, become available on an ad hoc basis from the Department of Education and Science and the Department of Trade and Industry.

In the current economic climate, however, suppliers are be available from these sources this year.

Schools and local education authorities have traditionally raced to spend their financial allocations by the end of the financial year with the result that money from a variety of budgets becomes available for

This year, suppliers believe that schools are storing cash away against a bleak economic outlook. The evidence is that they are deferring decisions to buy more computers.

While exact numbers have yet to be collated following the end of the government's finan-cial year this month, it seems likely that a market that was expected to grow by 10 per cent will contract by the same amount, an overall decline of some 20 per cent.

end of 12 months of unsettling



Sam Wauchope: Acorn sales have been 'uneven'

volatility in what is normally a predictable market. The spread of local management of schools (LMS), which by 1993 will ensure that all hools in England and Wales with more than 200 pupils will control their own budgets, has resulted in confusion and uncertainty among those newly responsible for, but unused to, taking decisions about computer hardware and software in the past, they have relied heavily on advice from local education authority advisers. Some will continue to do so.

Also, difficulties local authorities are experiencing in admin-istering the poll tax has added an element of uncertainty to the value of capitation grants they will make to schools.
School computing is not hig business - the whole UK edu-

cational computer market including colleges, polytechnics and universities is worth less than £200m It is, however, a niche market our excellence in the computing

business and those companies which have made it their own have emjoyed steady returns in recent years.

The principal players, Acorn and Research Machines, derive and Research Machines, derive their strength from the inti-mate relationship they have built up with their customers.

their understanding of the educational process and their willinguesa to provide extensive service for modest returns. Large suppliers like IBM and Apple, while strong in the universities and colleges, have lit-tle part in school computing

and are unlikely to make School computing is two markets in one - the market for educational computing and the market for educational administration. Research Machines

and Acorn, with a wealth of

ready-written, high quality edu-cational software have cornered the market for educational computing in schools. They are less dominant in educational administration where there is more of a need for conventional computer power.

Acorn, part of the Italian Olivetti group which developed the BBC microcomputer, has dominated the schools market since the early 1980s.

Acorn systems are installed in 85 per cent of schools. It is especially strong in the primary sector where it boasts familiarity and an impressive range of educational software, with more than 1,000 programs listed in the Acorn Education Direc-

Company's latest machines feature a high-performance microprocessor of its own design which has persuaded Apple Computer of the US to stablish a joint company with VLSI Technology and Acorn to exploit the technology.

About half Acorn's revenues of about \$50m come from sales to schools. Research Machines of Oxford, privately held, is second overal to Acorn, but holds 44 per cent

the market in secondary schools and 29 per cent in col-About 60 per cent of its sales of £63m are to schools and it has a strong toehold in govern-

ment computing and computeraided design. Research Machines competes

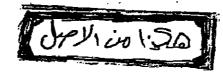
The suppliers believe that schools are storing cash away against a bleak economic outlook

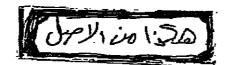
in both the computers for education and computers for administration sectors. Recently it won a £4m order to provide every secondary school in Northern Ireland with the hardware and software for

While the combined effects of LMS, the economy and the poll tax on computer sales are depressing for the companies involved, they also raise questions about the preparedness of schools to teach the national curriculum.

A recent study by the Parliamentary Office of Science and Technology - the independent body that reports to parliament on the scientific and technological implications of big issues such as food irradiation and the greenhouse effect - suggested that schools in England and Wales would need £310m during the next five years to deliver the computer education required by the curriculum.

It is worrying that that sum is unlikely to be made available. It is equally worrying that nobody seems sure of how much money schools will be prepared to spend on computers in the next few years.





THE COMPUTER INDUSTRY 7

AFTER on 12 years service at the Aldernston Atomic Weapons Establishment, the world's ons Establishment, the world's first model day supercomputer is alrely an antique.

The Cra IA, the pioneering computer signed by Seymour Cray afte he founded Cray Research | the mid-1970s, has a digraph of the computer of the mid-1970s, has a digraph of the computer of the mid-1970s.

STITESTING THE STATES

The second secon

arder

been congned to a disused aircraft ingar used by the London cience Museum to store exhits. Donated to the Museum the Cray company, it will entually be displayed as part the Computing Collection.

Weight eight tonnes and operate at 160m floating point perations a second (Flops a measure of supercompany performance, it cost 28m i/1979. Now it is: "Outcompute performance, it cost 23m i/1979. Now it is: "Out-dated arge and expensive for what does by modern standard according to the Science Museum's Mr Peter Bail-loday's top of the range Cra the YMP-8 with eight prossors weighs considerably lesoperates at a peak of 2.5hn ifo and costs about \$20m.

The Cray 1A was designed to said alone; Cray's newest achines are built for what Mr In Rollwagen, the comparis chief executive, calls "nettark supercomputing"; providing number crunching apability as part of a network is smaller computers.

The rapid advances in technology which have so quickly dated the Cray 1A, have also Uchanged the shape of the supercomputer business.

Only a few years ago, there

Only a few years ago, there were two dominant manufacturers, Cray and Control Data of the US, supplying a tiny group of customers who both needed the power and could afford the price of the fastest available computing hardware. Today, the same customers -meteorologists, oil exploration organisations, aerospace com-panies and automobile manu-facturers – still need supercomputer performance.

Peugeot SA, for example, an organisation comprising the two French automobile manufacturers Automobiles Peugeot and Automobiles Citroen, has

Edinburgh University is advanced in transputer-based supercomputing

just ordered a Cray YMP2E, a two processor system that nev-ertheless delivers some 600 mins. It will be used for general automobile research and design including structural analysis, crash simulation, acoustic design and the simulation of car behaviour.

The supercomputer land-scape has changed irrevocably, however, over the past two years. Control Data, the US supercomputing pioneer has moved out of the area altoties in other parts of its business made the heavy research and development investment necessary to stay at the lead-ing edge too great a burden.

Seymour Cray detached him-self from Cray Research to establish a new company devoted to the development of the Cray 3, an innovative machine based on chips fabricated in gallium arsenide, a material which makes possible speeds of about three times the maximum possible from sili-

The new machine depends on a whole range of new tech-nologies including assembly by robots and is proving a severe challenge even for a man recognised as the world's foremost supercomputer designer.

International Business Machines, which for many years had tended to ignore supercomputing as a niche market where the return hardly justified the investment, changed its mind and came back to the market with a family of vector processors



■ SUPERCOMPUTERS: a faster rate of change

The high price of top performance

conventional high performance mainframes with a bolt-on accessory giving a performance for certain applications close to that of a supercomputer. It also funded research into an advanced supercomputer being developed by Mr Steve Chen, formerly a senior designer with Cray Research.

The three Japanese main-frame manufacturers, Fujitsu, Hitachi and NEC launched supercomputers of impressive performance. While critics argue that their machines are let down by inferior software when compared to the Cray range, there can be little doubt that in hardware terms the Japanese machines are set to challenge the best US designs

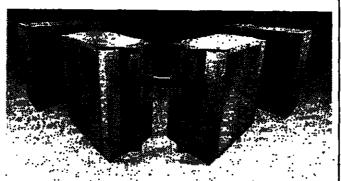
The principal change in the market, however, has been wrought by a different kind of advance. The emergence of two new kinds of supercomputer minisupercomputers and massively parallel machines, which offer much of the performance of a conventional supercompu-ter at a fraction of the cost have opened new markets for supercomputing. Supercompu-ters, in fact, is a name not much to the liking of computer engineers who prefer the expression scientific comput-

On this basis, a high performance Sun workstation carrying out scientific and engineering calculations is in the foothills of supercomputer performance. Speed is the impor-tant factor especially where, for example, weather foreca ing is involved. As Mr Bryan Little, director of operations for Cray Research in Europe, points out, the calculations involved in weather prediction can be carried out by a small machine - but by the time the

answer has been delivered, the storm will have passed. Minisupercomputers have the capacity to tackle many kinds of calculation and simulation. Some approach the speed of a full scale supercomputer. FPS Computing, for example, which started out building "go-faster" processors has launched a machine which it rates at 2.1bn flops on typical mathematical routines — close to the performance of a \$20m

Cray for less than \$2m.
The kinds of customer who can take advantage of minisu-percomputing power include scientists carrying out electro-magnetic analysis, structural analysis, signal processing and computational chemistry.

Typical of the new supermin-



icomputer manufacturers is Convex Computer Corporation, another company experiment-ing with esoteric gallium arse-nide technology to give speed

at low cost.

Cray, faced with the first threat to its pre-eminence in supercomputing in many years, has been forced to meet the challenge from Convex and other minisupercomputer makers by launching smaller, aircooled models in its YMP series. It also bought a US-based minisupercomputer based minisupercomputer maker, Supertek Computers, and now sells its S-1 machine.

Massively parallel machines are constructed by manufacturers such as Thinking Machines of the US. These rely for their power on hundreds or thousands of individual processing chips connected together and co-ordinated by

Where is Europe in all this? Nowhere in conventional supercomputing. It does, however, have the skills to build massively parallel machines. asing, for example, the Immos transputer, a processing chip designed for parallel process-

ing applications.
Edinburgh University, for example, is particularly, advanced in transputer-based supercomputing. But it will require funding on a substantial scale for Europe to make much headway against the US and Japan

of warnings that Europe is throwing away the supercom-puting future, the Italian phys-icist Mr Carlo Rubbia and a panel of experts have urged the development of pan-European high speed computer communications network backed by a Community expenditure by 1995 of 1bn Ecus a year.

Alan Cane



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■ STANDARDS: users wait in vain for common technologies

Consortia add to confusion

THE COMPUTER industry is driven by fashion, and industry standards is the current craze. At one time, indeed, it seemed as if a genuine enthusiasm for common standards might result in lower costs and greater simplicity of operations for customers, a notion much promoted by the manufacturers themselves.

The belief was that if manufacturers were prepared to agree common technologies for agree common technologies for operating computers, connecting them together and running software, users would be saved the cost and complexity of connecting dissimilar hardware. At the same time, software suppliers would be able to write programs canable of write programs capable of being run on any machine, cut-ting the cost of the multiple versions they have to produce

at present.
That, however, has proved a vain hope. For most computer users, the standards issue has become hopelessly confused. The suppliers have done little to help matters, taking part in seemingly endless series of industry consortia to promote one standard or another. There are compelling financial rea-sons for this apparent way-wardness – backing the wrong standards horse can be an expensive mistake. But somewhere along the line, the idea of common standards to which everybody in the industry adheres for the benefit of the

customer has been lost. Common standards are cru-cial to the idea of open systems, which most observers believe will play an increas-ingly important part in data

What is an open system? According a new handbook*, they are defined as: "those that

conform to internationally

agreed standards defining com-puting environments that allow users to develop, run and interconnect applications and the hardware they run on, from whatever source, without significant conversion cost". The author goes on to point out that the key factors for users are that no single supplier actually "owns" (that is,

has control of) the environ-ments involved and that the mixing and matching of appli-cations and hardware can be achieved without significant The reality is that every supplier of any size is scrabbling to own, or at least share ownership, of any hardware or soft-ware element which looks as if it stands a fair chance of becoming a standard. The result has been a series of pitched battles which show no

real signs of abating.

Even the oldest standards war, the fight over how best to connect computers together in telecommunications networks, has yet to be resolved after

more than 15 years.
On the one hand, standards setting bodies are trying to establish a set of rules called Open Systems Interconnection (OSI) which they have now (OSI) which they have now almost completely defined. On the other hand, International Business Machines (IBM) is insisting that its SNA rules will remain the way for its own machines to be connected together, while many customers are content with rules called TCP/IP devised by the US Defense Department.

Or consider, for example, the latest industry initiative, a

Or consider, for example, the latest industry initiative, a consortium of 20 leading suppliers including the US companies Compan, the leading supplier of high performance personal computers, Control Data, the mainframe supplier

and Digital Equipment, the world's principal minicomputer maker. It also includes the Japanese suppliers NEC, Nip-pon Kokan KK and Sony. The consortium has estab-

lished what it calls an

Advanced Computing Environ-ment (Ace) whose elements include support for software operating environments from Microsoft (OS/2 version 8.0) and the Santa Cruz Operation (Open Desktop, a version of the (Open Desktop, a version of the Unix operating systems) and microprocessor chips from Intel (80/386, 80/486 and so on) and MIPS Computer Systems' (advanced reduced instruction set computing, or Risc) chips.

The aim of the group is to "unify" the industry by establishing standards combining software and hardware tech-

software and hardware techsoftware and hardware tech-nologies from personal comput-ers, computer workstations and multi-processor computers. The group does not include, however, IBM, the world's largest computer manufacturer, which frequently seems to behave as if it feels it has an inalienable right to decide which standards the industry will adopt. It is a leading light behind the Open Software Foundation, which has been

developing its own Unix-like operating systems, OSF1.

Some observers see the formation of the Ace consortium as a challenge to IBM; others as an attempt to displace Sun Microsystems from its dominant position in the Unix workstaten market place. station market place. Sun, an ambitious, fast-grow-

ing company, has about two-thirds of the market for Unix workstations based on its pro prietary Risc design called "spare". It has been licensing this design widely in an aggressive attempt to establish it as the industry Risc stan-

One of the first licensees was Solbourne, a workstation man-ufacturer. Mr Barrie Murray-Upton, its vice-president of European operations, said after the announcement of Ace: "Why would 20 of the world's leading computer manufactur-ers band together to form a consortium unless they were seriously worried about the

continuing success of sparc technology? The Ace group's attempt to appear cohesive was not helped, either, by the emer-gence of a splinter group among the 20 declaring its support for yet another version of Unix. The upshot of all this wrangling is that customers' need for genuinely open systems has been hijacked and treated with contempt by rival

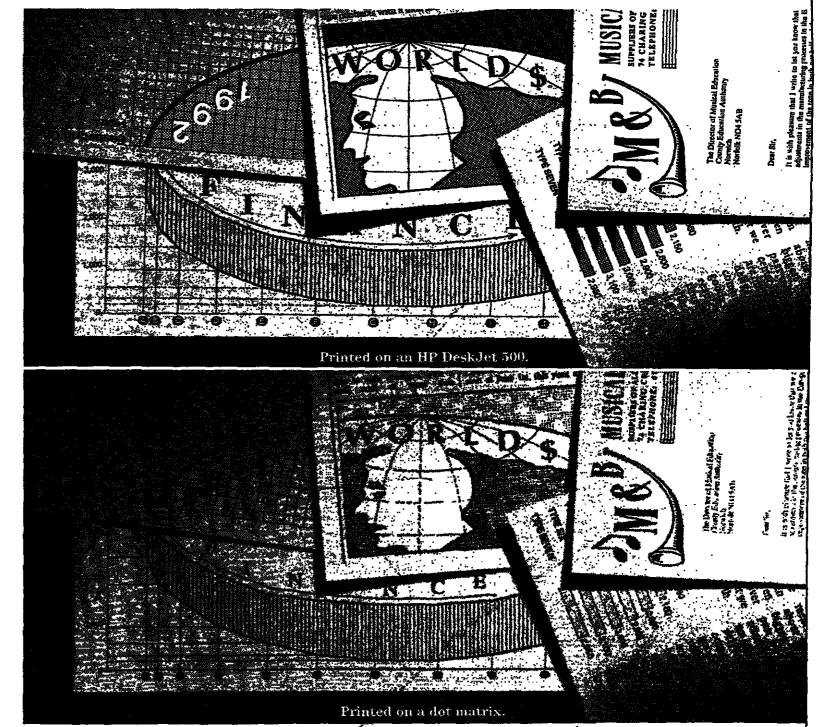
industry gangs.
Groups of users have attempted to establish their own ginger groups, but with only limited success - General Motors' attempt to set a manufacturing automation protocol

(MAP) is one example.

Earlier this year, in initiative sponsored by the user arm of X/Open, one of the earliest standards pressure groups, representing hundreds of users met in Dallas, Texas, to formulate bleakts. late plans to encourage manufacturers to speed up the introduction of open systems. They deliberated and drew up lists of their requirements. The resolu-tions, however, fell far short of an ultimatum to the manufac turers. Computer users, to some extent, have only themselves to blame for the way manufacturers treat them.

*Proctical Open Systems by Ian Hugo, NCC Blackwell, 108 Couley Road, Oxford, OX4 1JF.

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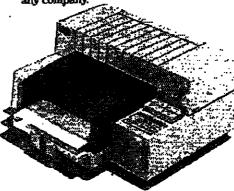


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■ SEMICONDUCTORS: when is a computer company not a computer company

It all depends on the number of chips

Regardless of how they prefer to be styled, both of these leading US semiconductor manufacturers now make products which used to be made by computer companies. As computer companies concentrate on profitable activities such as software and systems integration, semiconductor companies such as Intel and Motorola are spending more of make 10 years ago."

The reason he insists on Intel not their time manufacturing comput-

Ten years ago, the computer companies simply provided customers with their computers. Now the task of traditional computer companies has shifted, says Mr Giroud. "The end user is asking for more software, more assistance, more train-

ing," he says.
As computer companies have moved away from their older manu-

THE past year has seen big changes in the ownership of the companies which distrib-

ute computer equipment in the UK. In general, control of the leading companies has moved outside of this country.

In the past 12 months Front-

line, one of the most successful of UK computer distributors, has been taken over by Ger-

man distributor Computer 2000, while network specialist QDL has fallen to Micro Macro, a Netherlands combine,

and in the past few weeks Soft-ware Limited has been taken

These changes of ownership are arguably less important than the changes in the struc-tures of computer distribution

channels that have been tak-

ing place.

A few years ago computer distribution channels in the UK could be defined quite eas-

ily. The manufacturer at the top would sell equipment to distributors, who in their turn would sell it on to computer

dealers. But more recently this three-tier structure has begun

Pressure on profit margins has encouraged manufacturers to remove the centre distribu-tor ther, and to deal direct with

computer dealers, and even

with customers. At the same

time, we have seen the growth of the super dealer, operations such as Computacenter and

Technology which are large enough to deal directly with suppliers, and dealer/distribu-

The two types of operation

MR Bernard Giroud, vice-president

of Intel, takes strong exception to anyone calling his organisation a

computer company. By contrast, Mr Tom Beaver, vice-president of Moto-rola, positively insists on his organi-

sation being called a computer com-

facturing role, Intel, the world's leading manufacturer of microproessors, has moved in. "We are doing what an ICL or a Nixdorf was doing 10 years ago," Mr Giroud says. "We are making the central processing unit that ICL used to

being called a computer company is that it does not deal directly with the end users of computers. "A computer company is a company that sells solutions to the end user. We supply hardware to the system integrators. They supply the technology to the end user, combined with the software. We are not in competition with Compaq, Hewlett-Packard or

Motorola, America's biggest semi-

meet in the middle, with dealer-led companies such as Computacenter and Technology

becoming, to all intents and

purposes, distributors, and with distribution operations such as Rossendale, adding computer dealer operations to

broaden their base. Pressure on margins is such that it is difficult to see, in the minds of

many analysts, how an opera-tion that deals solely as an

intermediary, taking equip-ment from a manufacturer and

passing it on to a computer dealer without gaining any extra profit margin from sell-

ing direct to users, can sur-

One danger for the trade-only distributor is that the

market will split, leaving such companies handling mainly

the more esoteric product

ranges and lower volume ship-ments to smaller dealers.

As the bigger dealerships are beginning to show, and as smaller distributors which

move back into direct sales confirms, large amounts of

money can be made through a combination of relatively lim-ited product ranges shipped at

Mr Derek Lewis, head of Technology, argues that large corporate dealerships such as his own company should con-

centrate on on two, maybe

three ranges of computer hard-ware. Mr Lewis's company is a member of Comec, one of two

big European dealer associa-tions, and the implications of this are clear – if the dealers

throughout Europe who are members of Comec decide on

conductor maker, sees itself as being more directly involved in the computer industry. Mr Beaver says the company regards itself as a manufacturer of standard computers, along with their operating soft-ware. The only area in which Motorola is not involved is in the provision of applications software.

Five years ago Motorola established a separate computer division, which Mr Beaver heads. One of the reasons why Motorola wanted to move more decisively into computer manufacture was to help influence the debate over common operating

The computer industry worldwide has seen a move away from computers which are unable to communicate with those provided by other

increasingly insisting on common standards or open systems. They are demanding that different manu facturers provide computers that can talk to one another. Motorola

'A computer company is a company that selis solutions to the end user'

makes computers which use AT&T's Unix operating system. The move from proprietary to open systems provided Motorola with what it saw as a commercial opportunity.
"We saw a lot of computer compa-

mies struggling through the transi-tion from proprietary to open systems. We saw a lot of them deciding to become niche compacialising in banking, insurance, what have you. They're let-ting someone else build the hardware. We saw that as an opportunity because our corporation is good at competing in commodity

commodity item," says Mr Beaver Mr Beaver says he sees the world computer industry today as being divided into three groups. The first consists of companies providing a mixture of computers adhering to both their own and to common operating standards. He says the American companies IBM, DEC, Unisys and Hewlett-Packard belong

products. We make computers as a

in this category, along with Siemens of Germany.

The second group consists of companies providing computer systems to clients in particular fields, such as banking or law, and contracting out much of the hardware manufac ture. He puts Wang of the US, Olivetti of Italy, Philips of the Netherlands and Nixdorf of Germany (now

part of Siemens) in this group.

The third group consists of companies providing products for the open systems market. NCR, Intel. AT&T, Sun Microsystems and Compaq - all of the US - fall into this category, as do most of the Japanese computer companies. So, he says, does Motorola. Participating in a commodity market, he says, these companies have to sell computers on the basis of pice and

performance. The move by many conputer companies away from manfacturcompanies away from manactur-ing is not the only reason this some chip companies have become com-puter manufacturers. MrGiroud points out that technologid developments mean that complets use fewer and fewer chips.

"At the moment, you ke two chips from Intel, eight che from someone else, add the memy, and you have a personal compter. In 1984 or 1985, you needed b chips plus the memory to maker com-puter. In 1983, the 10 chips he the memory you need toda will become one chip plus the many,"

Mr Giroud says. As the number of chips ted in computers shrinks, semiconactor makers effectively become omputer manufacturers. "What y are doing is we are putting a PCd a chip," Mr Giroud says. "The ope we are designing now have 40 h 5m transistors."

Michael Skapinke

■ DISTRIBUTION CHANNELS: a year of change

Three-tier structure crumbles





Pinchbeck (left): makers will be like supermarket suppliers. Sculley: working on price puzzles

an official range of computers, they can drive a very hard bar-gain, forcing the margins of manufacturers down. This worries Mr Don Pinch-

beck, managing director at Epson UK.-He feels that "the reseller who is pan-European can seize power from manufac-

turers". Comec and the International Computer Group (ICG), which is the rival asso-ciation of which Computacenter is a member, can through the combined buying power of their membership overturn the food chain, controlling the manufacturers rather than

being controlled. If this happens, Mr Pinchbeck sees com-puter manufacturers becoming very much like the suppliers of UK supermarkets, having prices, terms and conditions dictated to them by a few all-powerful chains. A possible

the motor industry and mov-ing machines tailored to indi-vidual specification straight off the production line. The manufacturer, in effect, would

ecome a systems integrator. Other manufacturers are however exploring different routes to survival. One of the basic planks on which Compaq was founded was its determi-nation not to sell direct, but in recent years, as the power of its equipment has increased, the company has found itself evolving what is in effect a direct sales force that does not

With the exception of the large chains, a company's individual declers do not have the resources to sell adequately into what is, in effect, the minicomputer market. If a company will not set up the kind of direct sales force traditionally used to sell minis, it finds itself forced to do an increasing amount of hand holding for the dealers who are making the sales, Compaq UK has in the past few years hired a number of staff from mini manufacturers, and Mr Gian Carlo Bisone, head of European marketing, is no

stranger to these techniques. The nature of the market

Mr Risone describes the pri-mary characteristic of the dealer channel as being that it has no money, and Compaq pursues intricate schemes in order to inject money into it without the extra cash disappearing in the shape of increased discounts to custom-

Training and joint marketing programmes are examples of how this can be done. Other manufacturers are engaged in heavy support programmes for their dealer base, and one pos-sible consequence of such approaches is that dealers -particularly those who are not part of large associations — will become more closely bound to single manufacturers. These manufacturers may, albeit accidentally, convert their dealer base into what is

effectively a direct sales force. In the UK, Apple has tradi-tionally taken a similar approach to Compaq, attempting to keep prices and the level of its dealer expertise high, and taking a highly combative line with discount houses. However, it has created a problem for itself, in terms of sales channels, with its new low-cost range of machines. There are rumours that the company will later this year release a range aimed fair and square at the home/games market which indicates that the problem can

only get worse. Selling these without overturning the applecart and forcing down prices on its higher specification machines is a puzzle Apple is still working

on. Mr John Sculley, ch executive officer, has made confusing and parhaps omi-nous references to rapid turn-over-style outlets.

There is an alternative that Apple will almost certainly reject. If manufacturers in meral find themselves facing general find themselves racing lower margins on the machines they sell into distribution channels, is it not logical for them to consider reducing the number of tiers in the channels, or perhaps eliminate them completely by selling direct to nears? direct to users?

Speaking at a conference in Ddsseldorf last month, Mr Billy Ho, Mitac associate vice-president told the company's distributors that, at least for machines that are priced at commodity level, the company would have to face up to a reduction in the number of tiers in the channels.

Mitac, a Taiwanese com-pany, is one of the largest computer manufacturers in the world, although its name isn't that well known to users because it has traditionally built for other computer companies. His view was that Mitac distributors worldwide would have to begin to sell direct to users in order to increase sales and maintain profitability, and if as seems likely other manufacturers are thinking along similar lines, the future could hold increased terrors for indepen-

> John Lettice, Editor, MicroScope

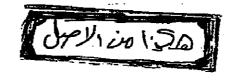


"Sometimes you have to get

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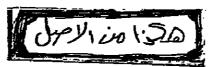
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■ MAINFRAMES: life in the old system yet

Right-size gains credence

it not lie down and die. It con-tinues to demonstrate it has a viable, long term place in information processing and management, in spite of the inevi-table effects of the recession, and the centinuing suggestion that it is to be supplanted by a collective of mid-range, work-station and PC systems.

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One of the main assumptions in the suggested demise of the mainframe, and one which has had a significant impact of late, is flownsizing. This is the reoncept that, as technology allows the same performance to be packed into an eversmaller physical size, so the need for the big boxes will diminish to an eventual vanishing point of economic non-viability.

The evidence is now starting

to point away from this inevi-tability. Instead, the term "right-sizing" is starting to gain credence. With that cre-dence comes an appreciation that the mainframe will con-tinue to have an important role. What is more the corollary of downsizing, that the technology will be exploited to add more power and perfor-mence to a system of any given physical size and price, will ovide continued justification

Right-sizing takes as its basis the fact that different types of applications in information management require different systems architectures to run them most efficiently. Therefore, while it is far more sensible to run a highly userinteractive mix of spreadsheet-ing, graphics and text report writing applications together on a PC, the same platform is totally inadequate as the host of a large, on-line transaction

processing system. Here, there is really no alternative to a large mainframe installation and an extensive s disk farm of on-line data storage. As such on-line transactions processing (OLTP) systems are the life-blood of most large corporations, such as the financial institutions, there is unlikely to be any sig-nificant reduction in either the role of or demand for main-

frame systems. The main differentiator that defines mainframes, minicomputers and workstations/PCs, is the relationship between an



Cleaver: recession worries for mainframe business

tionality.

An application that is data-An application that is unterrich but functionally poor, such as OLTP or large database management, is ideally suited to a mainframe solution. Applications with the inverse ratio suit the workstation/PC, while the minicomputer

matches applications which require a reasonable mix of these two elements.

The fact that there is still

application's data and func- has been a significant sales route through which IBM has reached its customer base.

The recession is, a big worry for IBM's mainframe business, for it has followed smartly on its introduction of a compl new range of systems, the System/390 range, described by Mr Tony Cleaver, IBM chairman and chief executive, as the biggest and most important announcement for a quarter of

Amdahl is still the only mainframe supplier to offer an implementation of Unix as a native operating system on its machines

very much a role for main-frames has not meant a healthy flow of business for the manufacturers. Industry-leader IBM indicated that the slump in its business, thought to have been stemmed following a good fourth quarter last year, looks set to continue for at least the

first half of this year.
The company has laid the blame on the spreading recession throughout Europe and Japan, though US analysts, such as Mr Ulric Weil of Weil Associates, have suggested that downsizing aspirations by customers is also having a considerable impact on the com-pany's mainframe sales.

There is a negative impact felt from the problems in computer leasing business, which the same of bridges between the

In spite of that significance. sales of systems in the range have been slow, except for a small increase which occurred during the fourth quarter last year. Then, sales of the most powerful, six processor systems, the ES/9000 Model 900, and the top of the entry-level machines, Models 330 and 340,

rose sharply. This looks as though it has been a temporary excursion, and that sales will continue slowly. As well as the problems of recession, the machines mark a fairly radical step function both in performance and compatibility with the the existing IBM mainframe prodtwo families, and users of 870 series machines may first have to upgrade their existing systems to one of the configurations at which a transition to the equivalent ES/9000 can be made. There have also been some missed compatibility opportunities in fairly obvious,

even rather silly areas.
For example, the upper range of the ES/9000 series is water-cooled, as are the 370 series machines, yet they use different diameter piping to supply the coolant.
In spite of the continued reli-

ance on proprietary architectures and operating systems from the mainframe suppliers, there are signs that open

there are sight that open systems concepts are now pen-etrating deeply.

Amdabl, for example, is still the only mainframe supplier to offer an implementation of Unix as a native operating sys-tem on its machines. Others, including IBM only offer it as including IBM, only offer it as a guest running under the pro-

prietary operating system. Unix on the mainframe has been a slow starter, but some users see it as a way out of being locked in to not only pro-prietary systems, but the pric-ing that can go with them. It offers opportunities in providing more coherent communications between different hard-ware platforms, a fundamental element of open systems, if they are all running broadly

they are all running broadly the same operating system.

If Unix does become more prominent on mainframe systems, it offers the chance of greater freedom for the IBM plug compatible systems manufacturers, which include the likes of Amdahl and Fujitsu.

These have built their husi-

These have built their businesses on making hardware that runs IBM software but is cheaper and/or more readily available than IBM kit. Any significant switch to Unix in the market could allow both them and the users a wider, more competitive choice of sources for applications soft-ware. It could reverse the current situation and allow a native Unix to act as host to a manufacturer's existing propri-etary operating system. This would provide current users of proprietary systems with conti-nuity as well as broadening the choice of upgrade path.

■ PRINTERS: concerned about scale

Smaller but more powerful

THE trend to downsizing where applications previously carried out on a mainframe can now often be done on a mini; and the power that one expected from a mini now being available in today's top of the range PCs is having a profound effect on the market for print-

On the one hand, advanced features and performance is required and yet, at the same time, the market will not bear prices which appear to be out of all relationship with the falling prices of the PCs to which the devices will be connected.

Some users want colour, others need improved quality such as higher resolution (in dots per inch) while many departments need to handle multi-part forms. Furthermore, a growing proportion of users need a graphics capability to handle a variety of text fonts and sizes as well as charts and more complex images. This is facility which is widely available, espe-

cially in the non-impact page printers. One long-felt business need is colour to enable, for example, profits/losses to be more readily seen in a spreadsheet. The simplest way of achieving this is to use a printer with a two-colour ribbon as was used in a manual typewriter. Where this would be too slow, colour ink jet and thermal transfer printers come into their

"The market for high quality colour printers is one which, until now, has been supplied with high priced machines," says Mr Richard Bright of Mannesmann Tally, printer manufacturer. "By introducing a sub-£2,600 thermal transfer page printer we have significantly reduced the cost of select page and the printer we have significantly reduced the cost of select page which we will be a selected and the printers." colour page printing, without sacrificing print quality. What was a specialist piece of equipment is now available to general business users."

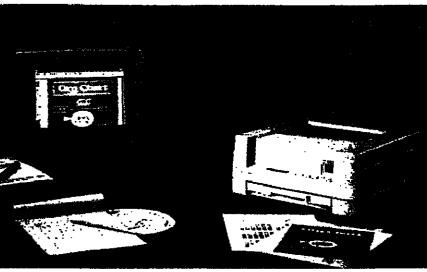
According to BIS CAP International the European colour printer market is set to expand from 170,000 units in 1990 to 500,000 in 1994 and will be worth about \$1.3bm by 1994. The UK printer market is likely to grow from 45.000 units in 1990 to 180,000 in 1994. It will be worth \$400m by

While, no doubt, some of this growth will come from normal business users, a growing proportion will be in computer-aided design (CAD) and desktop publishing where users will be able to get a colour representation of their documents before going out to print in high volume.

The widely-used laser printer with its 300 x 300 dots per inch (DPI) resolution is

frequently not considered adequate for DTP. Hence, once the work has been com-pleted on the Macintosh (or PC), the actual camera-ready artwork is prepared on a higher resolution printer often of more than 1,000 DPI.

more than 1,000 DPL
stems with contistems with contistens with



The Mannesman Tally M17400C low cost colour page printer

many applications it incorporates a number of interfaces (including AppleTalk) and emulations which together offer the compatibility required when the printer is a "shared resource" on a local area net-

Also vying for this market are other versatile printers such as the Kodak Ektaplus 7016 and the HP Laserjet III Si from Hewlett-Packard, the market leader in the non-impact market. While both of these are 16 pages per minute (PPM) the former incorporates a 6 PPM photocopler "designed for those simple one or two copies tasks common in the busy office environment thus increasing productivity by reducing waiting time at the photo-

copier".

The latter, using HP's resolution enhancement technology together with microfine toner, is claimed to give resolution akin to that of a 600 DPI printer. One of its options is that it can have a direct blob speed connection to a LAN, such as high-speed connection to a LAN, such as Novell, so obviating the need for a separate PC as a printer-server. This is far more cost-effective than with many net-worked printers.

Laser and ink jet printers are "non-im-

pact" unlike dot-matrix machines which tend to have a low-tech image and are often derided for their lower quality and high noise level. In spite of this they are the workhorses of industry and commerce and are able to handle multi-part forms which the other technologies cannot han-dle. According to Romtec, the market analyst, for those reasons plus cost they still account for 57 per cent of the UK market with laser and inkjet holding for 27 and

11.7 per cent respectively.

For example, Epson which tends to be identified as the world's predominant supplier of dot matrix printers (in spite of

claiming to take a growing share of the non-impact market) produces both gen-eral purpose and specialised products. A good example of the latter is its DFX-1000. This is a heavy duty system printer which will handle high-speed printing of multi-part forms at up to 300 lines per minute making it, they believe, the fastest serial impact printer in the world.

impact printer in the world. However, Romtec also reports that, during the fourth quarter of 1990, Epson and Hewlett-Packard had 29.2 and 23.6 per cent respectively of the printer sales (in units) to business end users via dealers, distributors. Retailers direct sales by the manufacturers only accounted for a very small proportion. But, as the Epson busi-ness is largely in the lower-cost dot matrix market, the value of HP's sales is

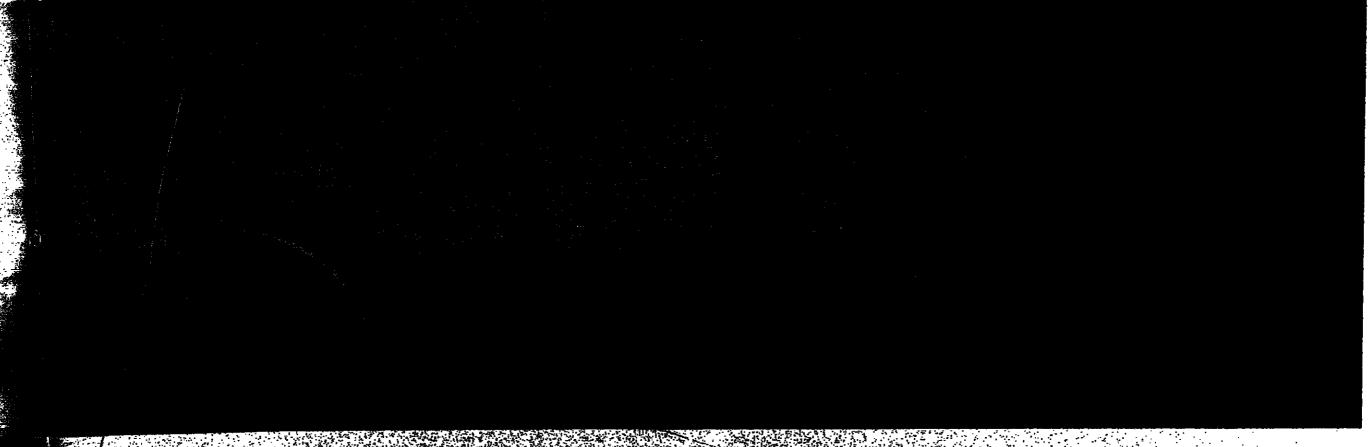
The dot matrix market is facing tough

The dot matrix market is facing tough competition — especially from inkjet printers — as users become more conscience of the image that their own printed output creates.

Ms Nicky Ayre, product manager at HP says the Deskjet HP DJ500 is "the better alternative to the dot matrix and that there is no longer a price-penalty to pay for higher quality". She says HP is focusing on the higher quality that is being expected by the discerning users. The HP DJ500 is ideal as a personal printer where the requirement is for about 50 pages per day and is increasingly being installed in day and is increasingly being installed in

people's homes.

It can be seen that there is no universal requirement. As a result, the variety of printers continues to grow. Unfortunately, it is not easy to find the collection of features that are needed at an afforda-



the office to get into work."

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The THESEUS Institute was Erestell by various | The successful configuration leading European companies, together with Telecom | probabilities are 1000 probabil

WORKSTATIONS: market continues to grow

Makers plan more

powerful machines

Market share of

worldwide

ing Environment initiative, an

industry consortium of 21 companies, have declared their

support for both a future uni-

fied version of Unix and a future version of Microsoft's

Members of the group acknowledge that they are

hedging their bets, until it becomes clearer which way the business workstation market

will move. The emergence of

workstations as business com-

outers has added to the flerce

competition in all sectors of

Sales of workstations are

the \$7.5bn workstation market.

expected to total \$9.2bn this

year and reach over \$12bn in

'Marketing prowess

and execution will

ultimately determine

the winners in the

workstation market'

1992, according to Dataquest, the market research company.

Sun Microsystems is the clear winner in workstations, with a

dominant 32 per cent market

share. Sun's combination of the

Sparc Reduced Instruction Set Computing (RISC) micropro-cessor and SunOS version of

Unix has attracted several

licensed cloners who offer Sun-

Sun's strategy has been to establish Sparc as an industry standard and mostly through

the success of its own products it is succeeding. Industry analysts predict that Sun will con-

tinue to lead the workstation market throughout the early 1990s although International Business Machines may

aggressively challenge Sun.

compatible computers.

OS/2 operating syste

workstation shipme

Sun Microsystems Hewlett-Packard

Digital Equipment

ergraph

Others

may tie for first place among

workstation vendors," predicts Ms Vicki Brown of Interna-

IBM has made a remarkable

resurgence in the workstation

market since its introduction, a year ago, of a range of prod-ucts based upon its own RISC

The company sold \$1bn-

worth of its RS/6000 workstations in 1990 and gained a 6.6

per cent share in the market.

Sales are expected to rise to \$1.7bn-\$2bn this year.

Hewlett-Packard, the num-

ber two workstation vendor,

lost market share in 1990 but is

expected to make a strong

recovery this year with the

recent introduction of a new

of the Reduced Instruction Set

Computing (RISC) architecture upon which its minicomputers

are based, HP has taken a tech-

noiogical leapfrog to produce machines that greatly outper-form comparably priced work-stations from its main competi-

HP's new top of the range Series 700 Model 730 workstat-

ion is twice as fast as IBM's

fastest workstation, and 3.5

times the performance of Sun

Microsystems Sparcstation 3,

share of the workstation mar-ket reduced in 1990 to 17 per

previous year, according to

Digital is aggressively sup-

porting Ace, the Advanced Computing Environment initia-

tive, and plans to upgrade its

DEC station product line with new workstations based upon

the powerful R4000 Mips com-

puter RISC chip, when that device becomes available.

market," predicts Ms Brown of

A challenge for all workstat-

ion participants will be to maintain profit margins as average workstation prices fall

and to adjust to new distribu-tion channels as the market for

workstations expands.

"Marketing prowess and execution – not pure technology – will ultimately determine the winners in the workstation

Digital Equipment saw its

Using an enhanced version

product range.

THE REST OF SECTION ASSESSMENT AND ASSESSMENT ASSESSMEN

■ REVERSE ENGINEERING: conflict and compromise 'Let the industry do what it does best'

REVERSE engineering, the practice of unravelling a competitor's product to learn how it works in order either to emulate it or to attach proprietary equipment, achieved unlikely political notoriety last year after a European Commission draft directive designed to protect software makers unleashed one of the fiercest bouts of lobbying ever witnessed in Brussels or Strasbourg.

The purpose of the draft directive was both simple and honourable; to pro-tect the creators and suppliers of personal computer software who are being cheated annually of about £3bn in Europe through unauthorised copying

of their products.

The idea was to eliminate existing disparities between the copyright protection systems for software in the member states as part of the Commis-

sion's general plans for the harmonisa-tion of EC law for 1992.

As such, it was supported to the hilt by organisations such as the Business

by organisations such as the Business
Software Alliance, the Software Publishers Association, and the Federation
Against Software Theft.
The Business Software Alliance,
established by six of the world's leading
PC software suppliers – Aldus (desk
top publishing) Ashton Tate (database)
Arteclesk (computer aided describing) Autodesk (computer aided draughting) Lotus (spreadsheets) Microsoft (operating systems) and Wordperfect (word processing), has taken a leading role in processing), has taken a leading role in initiating legal proceedings against companies it believes guilty of software

However, what turned a common-sense measure designed to protect software companies in a uniform manner across Europe into a political hot potato was the fine detail in the draft. Com-puter manufacturers realised quickly that the provisions of the directive would specifically forbid unauthorised reverse engineering and in doing so, hamper their efforts to compete with the leaders of the industry such as International Business Machines (IBM) and Digital Equipment Corporation

A campaign led by the hastily formed European Committee for Interoperable Systems (ECIS), to persuade members of the European parliament and the Commission to modify the directive was

immediately initiated. The software suppliers, together with IBM and DEC who saw the opportunity legally to forbid Japanese manufacturers access to their technology, took the opposite line and for some months the two lobbies fought a flerce war of

It was not surprising that the Com-

standards for data processing systems.
That means essentially IBM and DEC. Other manufacturers must so design their equipment that it can be connected to IBM's or DEC's if they are to have a share of the data processing cake. To do so, they have to understand the design of the connection, or inter-

face, in great detail.

That knowledge can be acquired either directly from IBM or DEC leaving the competitor at the mercy of the industry leaders - or it can obtained by reverse engineering with or

without their permission. Of course, reverse engineering can be

The compromise proved broadly satisfactory to the hardware manufacturers and to the software suppliers. However, the issue has continued to spark controversy

mission's draftsmen failed to anticipate the scale of the row they were to precipitate. Reverse engineering, while simple in concept is complex in detail and the extent to which it is used is essential. Furthermore, its use in the computer lustry is rarely appreciated by outsid-

It is an easy concept to understand in conventional engineering. Automobile manufacturers routinely take their competitor's vehicles apart to see what makes them tick. So what is reverse ngineering in computer software? It is software archaeology, according

to Mr Gilles Lafue, a software specialist with Andersen Consulting. "It consists of extracting the software's functionality (what the software does) and the design (how it does it) by analysing the programming code, data structures, files and databases."

It is necessary because of the dominant position of a small number of manufacturers who are able to set de facto used to create a competitive product through copying or improving on the original which is why software makers are keen to have it banned. Many of the best software innovations are not patented but simply hidden away in thousands of lines of computer code to prevent copying; legal reverse engineering, the software specialists complain, would be tantamount to a plagiarist's

It was not simply hardware manufacturers and software houses who were upset. Europe's computer users realised their ability to carry out essential main-tenance on their software would be hin-dered by the directive. (Maintenance, in the software business, means modifying and extending existing programs rather than repair.)

A compromise position was reached in December last year when a version of the directive was agreed in Brussels which provided for:

sification of software as literary

• A common term of protection in accordance with the Berne Convention Legal reverse engineering in limited

These circumstances are when the retrieval of information is confined to the parts of the original program necessary for inter-operability, when the information retrieved is not communi-cated to third parties except to the extent necessary for the operation of the new program and the information retrieved is not used to create or market a program that infringes a copy-

right in the original program.

The compromise proved broadly satisfactory to the hardware manufacturers and to the software suppliers. However, the issue has continued to spark contro-

Earlier this month, the Europea liament's committee on Legal Affairs and Citizen's Rights proposed 11 amendments to the draft directive which clarify the scope of the directive for research and analysis and the status of interfaces between hardware and soft-

ware under copyright law.

It has resulted in a new round of lobbying with ECIS in the forefront of a campaign to persuade MEPs to vote in favour of most of the amendments. Meanwhile, the Business Software Alliance which represents over 800 pub-

ishers of PC software, has decided it is

time to call a halt. In an open letter to the legal affair committee earlier in the year it said: "After over a year of extended lobbying, it was finally possible last December to reach a compromise that virtually the whole computer industry could accept. We believe that it is now time to include all of the lobbying and political debate and let the industry get back to what it does best - producing hard-ware and software - under the terms

of this compromise".

■ MID-RANGE SYSTEMS: hardware architectures under review

Software takes the driving seat

THE undeniable driving force in much of the mid-range systems market is systems software, and in particular Unix and the broader issues of open systems. These, in turn, are changing some of the rules that govern mid-range hard-

Unix is instructing its way into a position of dominance in the mid-range market, and the leading manufacturers are all reacting to it. Some, such as Digital Equipment (DEC), have arguably come to it somewhat later than others, while IBM is at last showing some signs that is taking the subject seriously.

The operating system is starting to have an impact on the way mid-range systems are designed and built. Reduced Instruction Set Computer (RISC) chip sets are increasingly the order of the day, for example, and those systems manufacturers that do not have their own designs are signing supply and technology licensing agreements with those that do.

those that do.

DEC is committed to the RISC chips produced by MIPS Computer, so much so that it holds a minority stake in the company. The MIPS-based DEC Station systems are still largely at the low-end of the company's product range, but MIPS has a new, more powerful 64-bit processor on the drawing board, which is likely to form the basis of any successor to DEC's successful VAX minicomputer architecture.

These chips lie at the heart of the new consortium of lead-ing hardware and software anies, known both as the "Gibraltar Group" and the Advanced Computing Environ-ment (ACE) group, which is standard for both the lower reaches of mid-range systems and workstations. Most estimates suggest that the first new machines built to this standard will not appear for

three years. Evidence to bear this out comes indirectly from DEC, which is pressurising its existing VAX users into updating their applications code to take advantage of future RISC systems within three years, otherwise they will be effec-tively locked out of future open systems developments. The company plans to shift to RISC-based systems and away from the VAX architecture in the long term.

Unix is insinuating its way into a position of

Prime targets for the ACE group are Sun Microsystems, which claims to own about 60 per cent of the workstation and low-end mid-range market place, and a newly reinvigo-rated IBM, which has scored some significant recent suc-cesses with its own RISC-based machines, the RS/6000 range. Sun Microsystems is fast becoming an important places.

becoming an important player in the mid-range market, not only for its own systems but also for its SPARC RISC-chip set, which is being aggressively marketed to other systems vendors. Several names in the mid-range market, with UK's ICL leading the way, have signed up to use the SPARC chip set and have established their own systems in the market place. The chip set offers systems builders a scalable platform, allowing them to develop machines that range from 12 mips (million instructions per second) workstations to 100 mips superminicomputers, all running the same operating system and sively marketed to other

computers, all running the same operating system and applications software.

Stretching from the desktop workstation through to large comporate server systems, the IEM RS/6000 has ruffled some feathers among established

winning an order for 2,500 systems from Barciays Bank. This cuts across the standard industry perception that IRM only pays lip-service to Unix, and even then takes an alternative stance by having its own version of the system, a extensively re-engineered superset of the Unix standard called AIX.

From the company's early efforts in the RISC-based workstation and mid-range markets with the 6150, which were generally considered to be down on performance and up on price in comparison with the competition, the com-pletely re-worked RS/6000 series looks like making a success of itself. This, in turn. may prompt IBM to take an even more positive stance about it, rather than always managing to give the impres-

afterthought to other, more strategic product families. In this context, the con ny's main mid-range offering is the AS/400 family. Though by most other manufacturer's standards it would be considered a large success, sales of these machines have generally these machines have generally been considered as somewhat disappointing. It has largely been seen as the replacement for the company's old System 3/K line of minicomputers which have a good, if stelld reputation in the traditional small and medium-sized business warket.

System 3X replacement sales have been good for the AS/400, but its penetration into new markets, especially those dominated by DEC with its VAX

The machine has been plagued recently with technical problems, particularly in the area of disk storage. It has been found that disk drives for the machine are suffering from excessive vibration which causes disk crashes and consequent failure of the system. What has made this ways is the fact that the worse is the fact that the sys-tem software is spread across all drives used on an AS/400, which means they all must

AS/400 users are subject to the changing pricing policies that can come with such proprietary systems. Recent changes in IBM's software pricing for this machine have left users that upgrade their exist-ing systems facing a 50 per cent jump in software costs for enhanced code that had previonsiv been free.

One growing trend in the mid-range market is towards multiprocessor systems built around common devices such as the Intel i486 proce One of the leading contenders, Sequent, has systems available using as many as 18 of these devices, offering a capability of servicing up to 500 users. NCR has recently announced

systems using a similar archi-tecture which, like the Segnent system, runs Unix. Once again, the basis of the the hardware architecture and

give mid-range users maximum flexibility.

Such systems go some way towards meeting the growing need for fault tolerance by the simple expedient of using a lot of processors. This is only a partial solution, however, and rarely satisfies those users with business-critical applica-tions that demand the maximum in reliability.

That market place remains the domain of two main contenders. Stratus Computers and, the market leader, Tandem. The latter's Integrity S2 machines use multiple processors, but instead of tasks being shared out among a number of small units, these use large a processors to run the applications together, monitoring each other's output and voting between them to discover and

Martin Banks



Andrew Carver (left) European vice-president of Nippo: Steel er arm with the company's president Takashi ka

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COMPUTER workstations are

'not just for 'techies' anv-

more", Sun Microsystems, mar-

These high performance

desktop computers have until recently been aimed primarily

at engineering and scientific applications. Sun and others

see a new market opportunity

"The mass penetration of workstations into markets dominated by personal comput-

ers, minicomputers and main-frames isn't a future event — it

has already happened," Sun

The marriage of computer

workstation performance with

the vast software base of the

PC is luring dozens of com-puter makers and software

developers into this emerging

market. PC companies such as

Compaq Computer and Apple

Computer are planning to build more powerful desktop machines based upon Reduced

Instruction Set Computing

(RISC) microprocessors bor-

rowed from the engineering

such as Sun, Digital Equip-

ment and Hewlett-Packard are

targeting business users as

well as their traditional engineering and scientific markets.

The technical features and

market characteristics that

divide the PC and workstation

markets are fast disappearing.

increasingly being ported to varieties of the Unix operating

system which is widely used

on engineering workstations.

The raw data processing power of the PC vies with that of low

end workstations. Distribution patterns are also overlapping.

patterns are also overlapping.
Traditionally, workstations
have been sold primarily by
direct sales forces or through
value-added resellers who add
specialised software. Increasingly, however, workstations
are being offered by the computer dealers and retail outlets
that dominate the PC market

that dominate the PC market.

However, as workstations enter the business market a

conflict between PC and work-

station software standards has

While Microsoft's DOS operating system dominates the PC world, Unix - in various forms

is the operating system of choice for workstations. Back-ers of the Advanced Comput-

Business applications are

Workstation manufacturers

workstation world.

for workstations as high-powered business computers.

ket leader, has declared.

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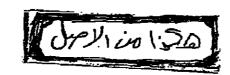
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Contract of the Contract of th



A businessman in the field is worth two in the office.

NE DAY a small businessman woke up to find he was no longer a small businessman. His business had grown. He now employed over forty people. They'd moved offices once and were already looking to move again. The small businessman had become a middle-sized businessman. To go with his middle-sized business, he had a middle-sized overdraft, a middle-sized ulcer and more of a middle. He was also more than mildly disillusioned.

"I no longer see anyone anymore. I spend all day in meetings with my managers or all day behind a computer. Where are the clients who helped me build this company? I never see them."

What also troubled him was the thought that if he wasn't seeing

his clients, and his managers weren't seeing his clients, who was? Other companies with other offers, he suspected. "Trouble is," he said to himself, rattling home on a late train, "you simply can't be in two places at the same time."

A blast of cold air from the outside world announced the arrival

of a fellow-passenger. He sat down opposite the middle-sized businessman,

took a file from his briefcase and began to work. What an industrious young fellow, thought the businessman. Home late from work and working all the way. He'll get on. He'll do well.

The businessman looked out into the night. Everything was shiny, wet black. Not long to go now he thought. I'll soon be home beside my fire. Only another thirty minutes. Enough time, perhaps for a small whiskey in the dining car. Why not, he thought. Why not indeed.

When the middle-sized businessman returned a little later he noticed the young man was still working. But now he had a computer. A portable computer it seemed. A Toshiba. "Excuse me," said the businessman, "I hope you don't think me rude but I can't help noticing your computer. You see I have a computer too, back at my office. But that's just the problem. My managers and I spend more and more time behind our PCs and less and less time with our clients' MDs."

"Well if you're not spending time with your clients' MDs who is?" said the young man.

"My thoughts exactly," said the businessman. "This very question has been troubling me for some time. Would you mind if I took a closer look at that screen on your computer? It's very clear, isn't it?"

"Yes it's a VGA plasma screen. Something you don't normally get on a battery-powered portable PC. Would you like to see more?"

"I thought you'd never ask," said the businessman.

These days the businessman's business is no longer middle-sized. It has grown considerably bigger. The whole office now uses Toshiba portable PCs. Switching over was a doddle. A Toshiba PC runs all the software the company was using, Microsoft Windows, Lotus 1-2-3 and Microsoft Word. It connects into the office network and can address the company's mainframe. The 386SX technology makes it a faster computer and 80 megabytes is far more storage than they've ever had with desktops.

The big businessman as he now most surely is, got his people out from behind desks and back into clients' offices. With Toshiba PCs they can do business and talk business at the same time, on their computers and with their clients.

He's solved the problem of being in two places at the same time.

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THE technology for scanning documents is most commonly seen in the ubiquitous fax scanner detects the presence of shaded dots on the page and then converts this information

stream of ones and zeros. In spite of the relative sim plicity of the technology, document scanners for reading this information into computers are still rare.

into an easily manipulated

Scanners have, for the most part, been eschewed as an mmature technology although the big banks have long us scanners for automatically reading cheques and simple forms, and supermarkets and manufacturers have bar-code readers to identify products. For at least 10 years, market

So far, almost all the projections have proved to be optimistic, many of them wildly so

forecasters have been predicting an explosive growth in the use of scanning and its related ument image processing (DIP). So far, almost all the projections have proved to be opti-mistic, many of them wildly so, but there are at last signs that DIP is about to enter the mainstream and that market growth rates are accelerating. As a result, all the big computer and office equipment suppliers are introducing products and investing heavily in research

and development. There are several reasons why image processing has remained a niche activity. • The specialist equipment can be expensive; in addition documents or other items, a user must have software to manage the information, terminals with big clear screens for displaying the images, and powerful computers and high capacity disks for holding large mounts of information. Software for converting the

scanned image into characterbased text (optical character recognition) and for managing the movement of images (usu-ally known as workflow) has only recently reached a point where it is widely available, reliable and cost-effective. Most of the products avail-

able have not been developed with specific applications in mind. This means that poten tial users must customise their systems and develop their own application specific software.

■ IMAGING and SCANNING: an immature technology grows up

THE COMPUTER INDUSTRY 12

Testing the water for entry to mainstream



Inevitably, this has limited the market.

"The problem is that vendors have been selling the technology as a technology, not as a solution to a business problem," says Mr David Kelly, document management systems marketing manager for computer supplier NCR

Users often end up develop-ing simple, sometimes ineffec-

Shipped value (\$ million)

Source: EIS Strategic Decisions

UK - Image management systems

Sub Workgroup

Workgroup

the applications, they are not very sophisticated, nor as wide-

very sophisticated, nor as widespread as the technology will
allow," he says.

• Image systems have been
developed separately from
other business applications.
The hig banks and insurance
companies which have
invested in DIP systems have

how to integrate their image applications with their traditional business applications.

The technical problems of putting effective image systems together have been compounded by a simple one of scale: a normal A4 page of wordprocessor text takes up about 1 kilobyte of computer memory or disk space, but a scanned A4 page can take up as much as 30K to 30K of memory (depending on complexity).

ory (depending on complexity). Such large volumes of infor-mation can quickly fill up magnetic disks and clog up commu-

nications networks.

Each of these obstacles is now being tackled and to a large extent overcome. The cost of raw computer power has fallen rapidly over 10 years, while optical disk tech-nology has solved the storage problem: each compact disk can store thousands of scanned

Compression techniques. high-speed local area networks and high band width communication lines have solved the document distribution problem and now make it feasible for scanned images to be distributed across large companies.
Scanners have improved and



Alex Littlejohn: new Royal Life policies can be processed within 24 hours while checking on existing policies is immediate. Olivetti

fallen in price, with the Japa-nese taking a growing market share. At the top end, specialist scanners for reading cheques can read up to 400,000 documents a day, some reading both sides. Full colour scanners, although still expensive, are also finding their way into some deak top publishing

The biggest market for docu-

end, where quality is improv-ing and costs are falling, Kursweil, a leading supplier, has a system in the £15,000 bracket which can read up to 50 pages a minute at a high-quality 400 dots-per-inch resolution. Hand-held scanners for

attaching to personal computers are available for a few hundred pounds. Last year, an international group called the Scanner Programmers Interface Association announced they were developing international standards to make it far easier to use scanners with simple office software pro-

photocopiers and computer at-tached scanners have been separate devices serving separate purposes. But some suppliers believe that eventually the use of "scan servers" will become widespread: documents will be scanned once and automati-cally indexed, after which any user on an office network can make copies, distribute them electronically, or manipulate

tocopier and the inventor of the windows graphical user interfaces used by Apple and others, is leading the way. It announced in October 1990 that in the US the Xerox Docu-tech Production Publisher will ignite a revolution as profound as the introduction of the first plain paper copier in 1959". The system can be used to scan colour images from

screen using "cut and paste" techniques, and print up to 135 high quality copies a minute. But it is not cheap: an initial configuration costs in the

region of \$220,000. The most impressive examples of document image processing in use can be seen in the financial sector, where the big paper-bound institutions have developed corporate-sized systems. Norwich Union, for example, recently revealed its

disks which can hold up to 40,000 A4 pages. The Filenet scanner is theoretically capable of scanning 40,000 A4 pages a day; Royal Life uses it to process 3,000 a day (it is not an automatic process; each document needs to be scanned, checked and indexed in a process which takes about 20 minutes par page). utes per page).
Before the system was installed, the paper files were kept in vast archives. Existing policies took several days to retrieve manually and new pol-

icles took between eight and 30 days to process. Financial intermediaries frequently complained about the long delays.
Now, new policies can be processed within 24 hours. while checking on existing pol-

and are then stored on video disks which can hold up to

The cost of raw computer power has fallen rapidly over 10 years, while optical disk technology has solved the storage problem: each compact disk can store thousands of scanned images

new mainframe-based insur-ance claims handling system, based on IBM's imageplus sys-tem. Eventually, it intends to deliver document images to as

deliver document images to as many 10,000 terminals throughout the organisation.

The benefits of image processing can be seen at Royal Life, part of the Royal Insurance Group. It installed an Olivetti Filenet document image processing system in late 1989 to store copies of its pension plan documents. It has spent a plan documents. It has spent a bout £500,000 on the computer hardware and about £300,000 on software.

used to hold about 180,000 executive pension plan documents which have been scanned in icles is immediate. "We can get any A4 page off the system in between two and 17% seconds," says Mr Alex Littlejohn, Royal Life's customer service

manager.

The fastest growth in demand for image processing applications is being seen at companies such as Royal Life, where there is a serious paper storage and management problem which is affecting business affecting to market efficiency. According to market researchers Ovum, the price of a typical multi-user DIP system will fall from £750,000 to 2400.000 over the next four years, attracting thousands of

Andrew Lawrence

SECURITY: or confidentiality, integrity and availability

Computer virus is the biggest threat to companies

WHEN computer systems were monolithic machines in aircooled offices, locked away from most of the employees, the security of the data was relatively easy to guarantee. But the pervasiveness of per-sonal computing and computer networking now means that almost every employee in many large companies has access to the main computer. Ensuring the data is not maliciously altered or misappropri-ated is therefore increasingly

difficult to achieve. Most organisations are beginning to realise the impor-tance of sound security measures. According to accountants Price Waterhouse, security accounts for 9 per cent of expenditure on new comcent, five years ago. Today only 5 per cent of companies spend nothing on it compared to 25 per cent in the mid-1980s. One difficulty for commercial organisations is that there is no single source of risk: instead companies have to "CIA" of computer data:

"Confidentiality" — so that only those who are authorised

to see or alter the information can do so. "Integrity" – to ensure the information is not changed.

 "Availability" - to guarantee the computer is operating correctly when required.
 One of the biggest threats to companies is the computer virus, says Mr Peter Jenner, business manager of PA Con-sulting's security consultancy centre. In the UK, both Rolls-Royce and British Rail,

for example, have experienced viruses this year. Viruses, computer codes which replicate themselves from one computer to another and destroy the integrity of the data, come in a wide variety of forms, many with exotic names. With the "cascade" virus, for example, all the characters fall from the top of the screen into a pile at the bottom. While with the "Italian"

virus a ping-pong ball bounces across the computer screen.

Virus checking software is available from companies such as Sophos, of Abingdon, SS International, of Berkhamsted, and International Data Security of London in terms of London. rity, of London. It works by checking for the individual pattern that every virus leaves in the program.

However, virus developers see the increasing sophistica-tion of anti-virus software as a challenge to develop ever more complex viruses, says Mr Chris Frost, senior manager in the European data security division of Price Waterhouse, making it increasingly difficult to spot the interloper. The latest stealth viruses change their identification code every time the program is loaded - so the detection system cannot look for a specific string of code.

Other viruses are armoured to prevent detection. When they latch on to a program they encrypt it entirely, mak-ing it difficult for the scanning software to detect where the virus code begins and ends. Other viruses have even been developed that remove them-selves altogether from the program when the detection soft-

As often as not, viruses are introduced into a company by an employee bringing in his or her own floppy disk to play computer games at lunchtime. Far more sinister is the hacker who breaks into the computer system by imitating the sign-on procedure of a com-pany employee - by using his

or her computer password.

The biggest problem with computer passwords is that employees often do not take them seriously – they are likely to use the name of their

One difficulty for commercial organisations is that there is no single source of risk

spouse, children or pet dog as the password, all of which can be easily guessed by the would-be hacker. Or they use series of easily guessed numbers, or even the word "pass-word" itself.

To overcome this the latest software packages contain lists of unacceptable passwords — up to 20,000 words of them in More secure means of prevent-

ing unauthorised access to computer systems are on the market or under development. One is blometric devices, such as retina scanners, thumburint recognition machines and sign-on machines where users have to sign their name. While somebody can change their password into a computer system easily enough, it is impossible to change a thumb print, or a retina, but this can bring drawbacks. Once a hacker has taken a thumbprint, for example, they can gain access to the computer system repeatedly without anyone noticing.

More complex are combina-

tions of hardware and software. Dynamic password tokens, for example, use devices about the size of a credit card which produce a new numeric password every few seconds. This change is controlled by an algorithm, or mathematical formula, which is synchronised with the mainframe's software. To use the system the user types in a une and password, and then

types in the password that is displayed at that moment on the token. Once a hacker gets into a computer system the results can be horrendous. The widespread use of computer systems in financial applica-tions — payroll, funds transfer or bill payment — has offered organised crime a lucrative opportunity for replacing the security van robbery with split-second electronic fraud.

Most frauds are discovered by results checks but overed

by regular checks, but expert computer systems are helping to minimise the cost of these. In the case of a bank, for example, the expert system would be programmed to know that a \$1,000 transaction at an exclusive clothes shop would probahly be genuine, whereas a transaction of the same amount from the local supermarket would not.

There is a growing awareness among computer compe-nies that their operating systems software must be made more difficult to crack. ICL, for example, now offers a high-security version of its VME operating system for commercial use which incorpo-rates mandatory controls: files cannot be moved from one section of the computer to anothe

The blagest problem with passwords is that 🐧 employees often do not take them seriously

- from accounts, say, to man-

Such security measures have also been adopted for the Unix operating system, with the latest version of Posix – which interfaces between Unix and the applications software having the capability to create these mandatory controls. Last but not least, computer

manufacturers and consultants are selling their wares as disas-ter recovery companies. Back-up sites and mobile computer units are there to ensure that even if your computer room is flooded or struck by lightning, your busin destroyed as well.

Della Bradshaw



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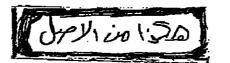


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THE COMPUTER INDUSTRY 13

■ MEMORY DEVICES: a prime driving force in computer developments

Moore's law passes the test of time

ory and on-line disk storage than could have been crammed into a mainframe system 15 or 20 years A significant element in such developments has been the funda-mental law of semiconductor manufacturing first postulated by Mr Gordon Moore, chairman of Intel. This states that the number of transistors which can be designed into a

given circuit area doubles every 18 This law has held true since Intel developed the first semiconductor memory in the late 1960s. This held just 1,024 binary bits, roughly equiv-alent to 20 words of text. In the Antervening 20 years, the capacity of a convenional Dynamic Random Access Memory (Dram) has risen to 4 Mbits, the equivalent of about

THE prime driving force behind the benopiy of developments in comput-

ing has been the ever-increasing

availability of memory. It is considered quite normal for a portable

computer to have more main mem-

77,000 words of text.

The next big step, to Drams holding 16 Mbits, will take that figure to

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... 215 1.7 1.8 4 18 ... 937

about 300,000 words per chip.

The availability of this capability to store programs and data has created a large demand for it, which in turn has led to a continual stream of new players entering the market and, in their turn, dominating it. At the start it was US manufac-turers such as intel, National Semiconductor, Mostek and Motorola. However, in a highly competitive market with high demand, and with

other product lines such as microprocessors to service, they were soon overtaken by other companies that specialised in memory produc-

These were the Japanese suppliers that still dominate the semicon-ductor memory business, such as Hitachi, NEC and Fujitsu. It is they that have taken the lead, not only in memory product, but also in research and development in the area. Few US companies now bother making memory chips at all.

Because of the nature of semiconductor manufacture, where the investment required to make devices of this capacity is large whether Im or 2m are produced, the volume production skills and benevolant invariant alignsts of Japan olent investment climate of Japan was always likely to make those companies significant in the mar-

Similar circumstances are leading manufacturers in other Asia Pacific countries to target the Japanese

Well-known names from Singapo-rean, Tiawanese and Korean con-sumer electronics, such as Sam-sung, Goldstar, Daewoo and Hyundai, are established as suppli-ers of leading edge devices that

rival the dominant Japanese for capacity, quality, quantity and

There is a certain irony in this last factor, for they are proving to be highly price competitive at a time when their presence is creating the potential of an over-supply of components.

This same sequence of events brought the Japanese suppliers to prominence in the first place when their aggressive pricing on world markets pushed most US semiconductor manufacturers out of the memory business and prompted the imposition of trade tariffs and sanctions by the US.
The fact that Moore's Law contin-

ues to hold true means that it is perfectly possible to predict the future capacity of memory devices. and when they might appear. Not only brute capacity will feature, for by the turn of the century it is confidently predicted that a wide range of special purpose memory devices will have appeared.

For example, the turn of the cen-tury should see a technology capa-ble of producing 512 Mbit memory chips but there is, according to companies such as Fujitsu, a more important market in using some of that potential capacity to produce other functionality on the same

It could be possible, for example, to provide logic circuitry on a 256 Mbit chip that will allow the memory to be customised to suit the requirements of a specific appli-

Fujitsu suggest it would be possible to include several current state of the art 32-bit processors in just one corner of such a memory chip, with other logic such as analog to digital converters - important for turning real-world measurements into a form which can be handled by a digital computer - also squeezed on to the same device.

Such a memory could have wideranging applications in industry, engineering and commerce, simply because it would be re-programma

Another area which is expected to see rapid developments is the Flash Eprom, a type of Erasable Program-mable Read Only Memory which offers high capacity, non-volatility and a fast re-write capability. What this means in practice is that companies such as Intel which

that companies such as Intel, which is a leader in this particular technology, can produce memory cards

R&D: from technology push to market pull



designed into a given circuit area doubles every 18 months

the size of a credit-card for portable computers and other space/size critical applications that can be written magnetic hard disk system. Even the most enthusiastic semiconductor suppliers do not see the techto with applications and data, stored safely without the need to be electrically refreshed, be read from as often as needed, and be erased and over-written as required.

tor suppliers do not see the tech-nology, which boasts 1Mbyte memory cards, taking over from the hard disk in the near or mediumterm future as the prime vehicle for on-line data storage.

For shear on-line, available data storage capacity, the magnetic disk

In all but two important areas, price and capacity, this is an excellent semiconductor analogy of the still waiting to be beaten. It is

also unbeaten on the classic measure of price per megabyte of stor-

The manufacturers show no signs of giving up such advantages with-out a fight. Conner Peripherals, the leading US purveyor of small disk systems, has helped to open up the burgeoning notebook PC market by producing systems using disks just 2.5 inches in diameter, yet capable of storing more than 20 Mbytes of

At the other extreme, high capacity 5.25 inch disks are being cas-caded together in desk-side PC systems from the likes of Dell and Compaq to provide over 1 Gigabyte of capacity - more than many a mainframe system.

The long-standing role of mag-netic tape as the medium for storing archive data is under threat. Variations on the CD-ROM, based on established Compact Disk Technology, are providing much higher capacities in a safer and more usable form. In addition, they are starting to prove an excellent delivery vehicle for comprehensive pub-lished data, such as directory infor-

Most important of ail, they open publish vital product information such as documentation. Using multi-media systems, such information can be shown in many new forms, including speech, videos and anima-tions, as well as the old standby of text.

Martin Banks

AS the shock waves of fiercer competition and accelerating skuctural change flow through world computer markets, debate is intensifying on both sides of the Atlantic about the policy measures needed to stimulate faster innovation in information technology indus-

The debate is broad because the nature of innovation and the ingredients which contrib-ute to it are hard to pin down precisely. Most studies identify a wide range of contributing factors, including the macroeconomic environment, industry structure, education and training, management culture and capital markets.

Most of these elements, however, respond to policy changes only over the longer term. Hence the search for faster-acting remedies has frequently focused on deepening the technology base by stepping up investment in research and development and encouraging research collaboration between companies and universities.

Since the early 1980s, subsidised joint research programmes such as Esprit have constituted the main thrust of European Community efforts to enhance the competitiveness of its electronics industry. In the US, there has been a growth of industry consortia such as Sematech, the MCC and the SRC.

The trend has been inspired partly by the mounting costs of staying at the forefront of electronic technologies and partly by the widespread belief that government-orchestrated col-laboration has played a deci-sive role in the rise of Japan's

electronics industry. So far, industry performance has not perceptibly improved. Many larger US computer makers, including IBM, are suffering a severe profit squeeze, while in Europe the industry is fighting for survival as heavy losses at companies including Philips, Nixdorf and Bull have prompted drastic retrenchment and restructuring. Why has the industry failed

to respond? One explanation was given in a recent paper by Dr Brian Oakley, former head of the Alvey programme, a five-year electronics industry research project launched by the UK government in the mid-

Innovation under scrutiny

He says that though Alvey achieved its technical goals, few of the participating companies turned the resulting research into successful products. That suggests that the weak link in the innovation chain is not a shortage of good technology but companies' failure to exploit it commercially. A broadly similar conclusion is supported by a number of recent studies of government-sponsored industry collaboration in Japan. These suggest that government schemes played only a minor role, and that the Japanese industry's strength owes much more to the stimulus of fierce competition on its home market and to

In successful Japanese elec-tronics manufacturers, much more tightly integrated

the structure and organisation of individual companies.

than in western industry. A team approach ensures the rapid feedback of information between all concerned including suppliers and sub-

> R&D are more tightly integrated with production and marketing than in the West

Unlike western companies, which have traditionally viewed innovation as a sequence of separate leaps for-ward, in Japan it is a continuous process achieved by simultaneous incremental advances across a broad front.

Typically, Japanese manu-facturers have many more, smaller development projects under way at once than do

The benefits of the Japanese system include shorter product strip away layers of bureau-cracy which slow down their response time. development cycles and greater flexibility in respond-ing rapidly to market changes. Furthermore, by spreading their development effort across

in most Japanese electronics companies,

so many different projects, Jap-anese companies are less vulnerable to the consequences of individual product failures. Stung by Japanese competition, many western technology

companies are seeking to speed up innovation by attacking barriers between research, product development and manufacturing. IBM, Hewlett-Pack-ard, Philips and Daimler-Benz

However, turning technology into manufactured products efficiently is only one aspect of the challenge facing the com-puter industry. Indeed, as even Japanese suppliers are discov-ering, it is no more than a nec-essary condition for staying in

As technology becomes ever more mobile, component prices continue to fall and product lives grow shorter, many types of computer hardware are becoming low-margin commodities. That trend - which is being accelerated by the spread of open systems standards - is compelling manufacturers to seek more of their value-added downstream by competing on functions, services and soft-

As this process gathers momentum, the driving force behind the computer industry's development is shifting from technology push to market pull. Increasingly, innovation is stimulated by the way in which computer power is applied, rather than by the specifications of the equipment

used to deliver it. That has placed more influ-ence in the hands of users, particularly larger ones, and is obliging suppliers to tailor information systems ever more closely to the organisation and specific requirements of individual customers.

A number of western manufacturers, such as IBM and ICL, have responded to that trend by directing more of their marketing effort into alli-ances with partners which possess intimate knowledge of specific industry sectors.

Japanese computer compa-nies are starting to realise that they can no longer rely simply on technical and manufacturing excellence to sustain their growth. Fujitsu's recent acquisition of ICL was heavily influenced by the Japanese com-pany's desire to improve its

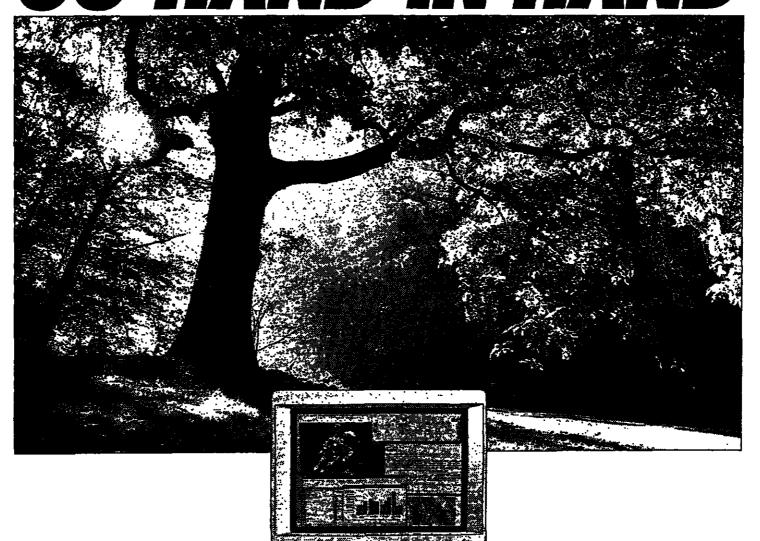
access to European markets and to benefit from the British company's expertise in systems

Over the longer term, this is likely to mean that computer manufacturers' competitive performance will depend critically on the sophistication and quality of demand in their nain markets. Furthermore, as information technology becomes more pervasive and deeply-embedded, the economic benefits it confers will be found increasingly in its application, rather than its produc-

pation among western policy makers with technology as the main competitive battlefield suggests that they have still to absorb the full implications of these trends. If their efforts to strengthen the performance of the computer industry are to bear fruit, they will almost certainly need to widen their focus beyond the supply side and place more weight on measures to stimulate vigorous

> Guy de Jonquières, Int'l Business Editor

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STATISTICALLY speaking, 1990 was a dull year for the UK

Association (ELA) show a 4 per

cent decline to £2.25bn in com-

minimal growth following

exceptionally strong demand from the financial services sec-

general slowing down in the

In all other respects, the last 12 months have been extraordi-

Starting last Auril with the

British & Commonwealth subsidiary Atlantic Computers, a

selves in serious difficulties

With 1,800 employees at the time the administrators were called in, Atlantic was once the

world's third-largest computer

Its customer list in 1983 included the UK Atomic

included the UK Atomic Energy Authority, BAT Indus-tries, Hanson Trust, ICI and

Penguin Books. Its 1988 turn-

subsequent casualties was

Blackspur Leasing, the special-

Leasing is a sales-aid

method which assists

with marketing

makers' new products

ist printing-press leasing com-pany, and ICS, a diversified leasing group whose transport

leasing group whose turnover, at its peak, was approximately

In addition, the trading posi-

tion of Capital Computers -

another computer leasing spe-cialist - has deteriorated to

such an extent since the end of

March 1990, according to the

most recent directors' report filed at Companies House, that

it has been considering "the sale of all or part of its lease

portfolio to third party compa-

nies and is also taking steps to

Networkers!

over amounted to £756.9m. The most prominent of the

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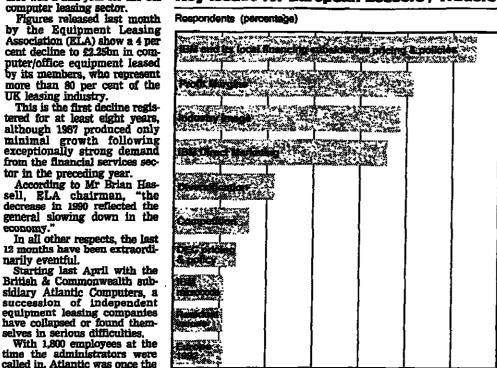
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Key issues for European Lessors / Traders Respondents (percentabe)

■ COMPUTER LEASING: collapse sparks an eventful year

Some severe image problems



review its position in the leasing market place."
While the increasingly

20

recessionary business climate has undoubtedly been partly to blame for the problems that companies have encountered, in certain cases lax management and the questionable structure of the profferred es also played a role.

Atlantic pioneered an arrangement called the Flexthe ability to take advantage of advancing technology by upgrading their computers yet which appeared - at least initially - to be extremely attractively priced.

Unfortunately, the Flexlease concept also resulted in the accretion of contingent liabili-ties due to the leasing company's commitment under certain circumstances to make good its customer's payments over the final year or years of

Not surprisingly, this year's collapses appear to have been the Flexiesse's death-knell. According to Mr Geoff Sew-

European Computer Leasing & Trading Association (Eclat), "it is very rare now that anyone tends to look at the Flexie although most of the operating leases written give customers

the option of going back and renegotiating a new deal."
With the Department of Trade and Industry investiga-ting Atlantic and the fraud squad in at ICS, the collapses have also left the industry with a severe image problem. This can itself have serious

knock-on effects. One of the factors cited by Capital Computers for the deterioration in its performance ras "the lack of confidence in the leasing market . . . following the failure of the number of leasing companies trading in the UK."

Perhaps the chief beneficia-ries of the turnoil in the independent leasing sector have een the computer manufacturers themselves, particularly Ms Carolyn Jacks, director of

Grosvenor Consultancy Services, the leasing consultant,

computer manufacturers to market their own lease offering

as the safe alternative." The annual European computer leasing survey commis-sioned by Solihull-based Eclat underlined "the increasing dominance of IBM's captive financing subsidiaries." More than 70 per cent of the survey's respondents ranked IBM among the top three competi-tors in the industry, versus 16.2 per cent for Comdisco, its

nearest rival. A year earlier, IBM had polled 54.9 per cent, versus 27.5 per cent for Atlantic in second

place.
The survey also claimed to reveal "2 rising trend of involvement by IBM" in used equipment and buy-back trans-actions — a field traditionally dominated by the independen leasing companies with their often painstakingly acquired expertise in the market for second-hand computer equipment. Though competition remains intense, the pressures being brought to bear on the independents are now prompting expressions of mild concern Mr Sewell says: "Few people can specify five years ahead

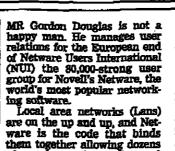
the equipment that will meet their needs. "The independent sector gives them the option of mixng and matching to meet their technical requirements. Without them we would be back to the original position at the end of the 1970s where the only

Among the most prominent of the casualties was **Blackspur Leasing**

alternatives available were finance leases."

Mr Sewell stresses, however that 50-60 per cent of the installed computer base is still leased through independent easing companies

According to Ms Jacks: "For the manufacturers, leasing is a sales-aid method which assists with marketing their new products - they cannot be expec-ted to provide their customers with the ability to change sup-



are on the up and up, and Netware is the code that binds them together allowing dozens of people to share files and peripherals such as printers. What concerns Mr Douglas is that software saboteurs are on the loose, networks are their prime target and publishing houses in Germany are printing their methods.

They publish books that tell you how to plant a virus. You might as well bring out a title on how to make an atom bomb in your living room," says Mr Douglas. His anger at the virus authors becomes understand-able as he details the precautions NUI and Novell have

been forced to take. "Virus attack has been the main issue in the last 12 months, and preventing it is very expensive. A lot of leading companies do not allow employees to use diskettes at all, so they can't unwittingly introduce a virus into a net work. The problem with net-works is that they are meant to be open to many users."

> When does a Lan become a Wan? I don't know'

Mr Douglas talks of protec-tive shells, software that checks a program every time it is entered on to the network to make sure the code has not

NUI has pressured Novell to improve the security features written into Netware. Since ing system in its own right it is not easy for the virus peddlars to get details of its workings. Documentation is a closely guarded trade secret. But the interface between Netware and the users' floppy disks became

"Novell has now boosted protection for files entered exactly what they've done. NUI tested the new release by running a virus specifically designed to attack Movell networks," says Mr Douglas. Metware's extra defences repelled

A successful virus attack can corrupt networked data across a company. "They can act in a nasty way. You find all your storage for the last year has gone. Generally the motivation isn't for gain through black-mail, it's just anarchy," says Mr Douglas. His scorn for the unseen enemy is very real. The other current passion the networking community admits to is economy.

"Security and money are the two big concerns at a typical user group meeting. In the past, networking solutions had to be high-tech and expensive. Now the emphasis is on cut-ting costs," he adds. Mr Douglas reels off the quick fixes users are resorting to. One site lines as a medium for the local area network (Lan) rather than If you don't mind the odd



Challenger: Notes may have fuelled the buzzword business

■ NETWORKING: the art of

knowing a Lan from a Wan

rise of the Lan. In 1985 he broke away from IBM with two colleagues and formed Persona Faculty. The dual role company selling products (Persona) and training services (Faculty) was started up to

In 1988, Dyson's 2825 a day

training courses attracted just

50 end users. In 1990, 1,500 peo-

ple signed up to get the

this growth says Mr Dyson. the Douglas verdict. Mr Gary Dyson has been in a The political war over the management of data, with corporate IT departments reluctant good position to observe the to see too much power shipped down to the users, was resolved. The idea of a Lan of PC workstations has been absorbed into the corporate computing model. Interna-tional standards have moved sored Token-ring with Ethernet, a networking protocol

"The user shouldn't have to worry about choosing between them. They both offer adequate performance, says Mr Dyson Faculty has ridden out the col-

lapse in hardware sales.
"In these times you can't sell hardware because companies have got enough. But network ing means they can turn their resources into a system You make the employees more productive. They cope better with fewer people," he says. If the Lan is now an accepted

standard, what are the big corporate buyers doing to squeeze extra value out of it? As is usp ally the case in the computer industry, any vaguely fresh idea is the cus for a crop of . buzzwords. The Lan world has now

spawned groupware. Referred to in the same breath as joint authoring and discussion data bases, groupware allows users to pool documents across a net-The secret of the software in

to co-ordinate contributions of this stage management. Although it is portrayed as structured discussion it is probably better compared to the notorious bulletin boards

tips.

Lotus Notes is one of the pioneering groupware products.

The local area networks (Lans) are on the up and up

Price Waterhouse, management consultants, use it to control activity on the international front, when consultants work for a common client across national boundaries Ms Susan Challenger, an

Notes may have fuelled the buzzword busine We're probably to blame, but groupware is a means to exploit network software rather than just sticking a pro-gram on a network and sharing it," she says.

Lotus finds that network

international marketing man-

ager at Lotus, admits that

versions of popular programs now make up as much as a third of its sales. Ms Challenger confesses that the distinction between the Lan and its less famous sister the wide area network (Wan) is not something to tax Louis's

network development teams. When does a Lan become a Wan? I don't know. I prefer to think of everything in Lan terms," says Ms Challenger. Perhaps a recent Dataquest survey offers the best explanation for the low profile of Wans, European Lan spending is predicted to grow from \$2.6bn in 1989 to \$5bn by 1993. Over the same period Wan spending will increase by a

modest \$100m, from \$400m to Interconnection between Lans is proving an attractive alternative to Wans managed by expensive mainframes. And

LANS are big in Japan. The high cost of office space in Tokyo forces a rigorous assessment of every square foot. Encouraging staff to keeping the rent in check, with a Lan saving precious space.

Michael Dempsey

■ THE USER GROUPS: an idiosyncrasy of the industry

Mix of cussed independence and some mutual self interest,

HEWLETT Packard has an invitation to show off its new Series 700 workstation later this month at its user societ-

ies' annual general meeting. However, this arrangement is not quite as cozy as it looks. Mr Steve Chatterton, chairman of ADUS UK (the HP Apollo workstation user group) has asked HP's main rivals IRM. DEC, Silicon Graphics and SUN, to bring their their top

SUN, to bring their their top workstations, and to compete in a demanding benchmark test devised by ADUS.

HP is confident that it will not be embarrassed in its own backyard — on paper the 700's specification is superior — but there is little doubt that the move has ruffled HP's feath. move has ruffled HP's feathers, and it is taking the challenge seriously – to the extent that its worldwide workstation manager will attend. This little drama illustrates

the curious mix of cussed independence and mutual self interest that characterises relations between user groups and their suppliers.

The fact that user groups exist at all is testament to this

powerful networkers.

Fiercely protective of their separateness, yet loyal, and often genuinely proud of their particular affiliation, in the same way that some people are bound to their cars, user groups remain one of the idlo-

puting and the too often dicta-

torial tendencies of predomi-nantly US-based hardware

syncrasies of the computer At once ginger group, talking shop and social club, historically these associations were the users' response to the technical complexities of com-

vendors. They have devaloped over the last 20 years into size-able organisation in their own right: the IBM CUA has 1,500 members, and the DEC group, DECUS, turns over 2500,000 in the UK annually in spite of administrative costs donated by DEC.

These national groups are invariably affiliated to larger pan-European or international organisations or groups such as the National Computer Users Forum (NCUF) the UK user groups' user group. Does this complex network have anything other than a self-sustaining role? In particular, when so many of the old loyalties and depen-dencies between vendor and

customer are threatened by

open system environments, is their much point in vendor specific user groups?
The short answer seems to First, one of the primary functions of these groups is educational. They act as a forum for sharing best prac-tice. The IBM CUA serves as a peer-to-peer information exchange both informally and through its extensive seminar programmes. It helps us to avoid re-inventing the wheel," says Mr Michael Moore, CUA

DECUS's formal mission is similar exchange, both within the group, and between the group and DEC, says Mr Steve . chahrman.

As long as computing remains technically difficult, and in the short term at least it can only get harder in a multi-vendor, open systems world, then the user groups basic role seems assured.

The same is true of their place as lobbyists.
This function is increasingly evated to a formal consultative status. So, for example, DECUS submits annual System

Improvement Requests to the DEC main board, a list of technology developments derived from polling individual mem-bers worldwide. bers worldwide.

At the same time, says Mr
Dawes, the UK group is constantly plugging away at local
issues – anything from involcing or licensing practice to an
upgrade path for companies
using non-standard DEC hard-

ware from the long-defunct Nonetheless the prospect of open environments is making

The fundamental challenge of open systems has prompted a basic restructuring of the ICL CUA, says Mr David Stew-art, its chairman. The 35 erstwhile individual special interest groups under the CUA umbrella, have set up a policy and review forum to consider, for the first time, their common problems, and in particular to clarify a single voice in dealings with ICL

over open system and UNIX Mr Stewart argues that the users' voice generally has not been articulate enough to influence open systems standards, and so far suppliers have dominated the debate. He thinks that ICL will be delighted by the CUA's initiative to define its own coherent

set of priorities. Similarly, Mr Moore and Mr Dawes report that open systems issues are beginning to preoccupy their respective

groups. Yet, paradoxically, they also comment that IRM and DEC have never been more attentive in their dealings with their users.

"IBM is relying more and

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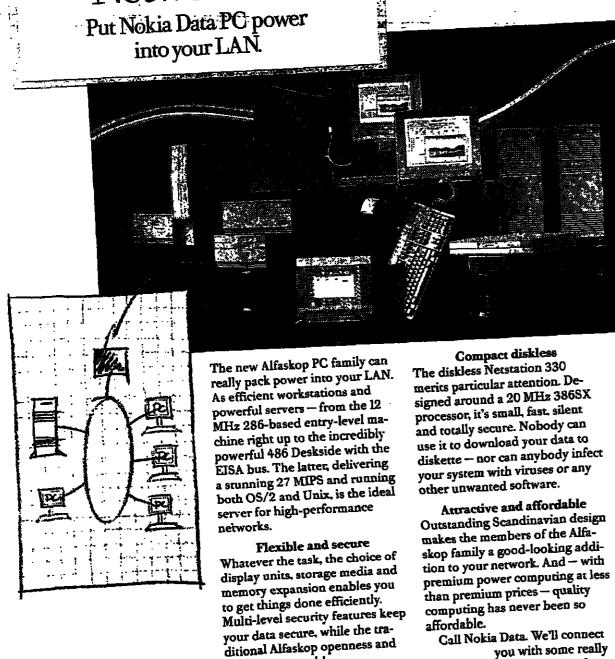
more on user organisations," says Mr Moore. Witness the 50 senior IBM technical staff who attended the CUA's Common Europe Conference in Brighton this month, just to listen to users, he comments. So what is going on? Could it be, the argument oes, that far from undermin-

ing these user groups, open system, multi-vendor environments, could actually stimu-User groups are persuaded that, as customers become more transient, then suppliers cal they are in marshalling customer opinion, and ulti-mately, in keeping their loy-

Does this work out? In part, perhaps. Certainly the days of user coercion are long gone. Mr Richard Owen, HP's workstation marketing manager, who will have to face the ADUS challenge, remarks that RP has long been customer-led company.

"ADUS is one place we can lis-ten to them," he says. However, the rub, Mr Owen argues, is that whilst user groups are peopled by technol-ogists — MIS managers and systems administrators then they will not drive IT strategy, and in the long term, it is that, rather than the practical consequences of open computing, that will marginal-

Dave Madden





Systems that shed fresh light on information

COMPUTER-based geographic information systems seem set to take their place among those developments which

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will embody the information They are described by the government as "the biggest step forward in the handling of geographic information since the invention of the map.

The systems facilitate the display and manipulation of data among such established disers as the large utilities and national and local government organisations that have traditionally made extensive use of paper maps — and are increasingly recognised as an accurate and effective market-

mercial organisations. GIS, essentially systems which allow the analysis of stored information on a geo-graphic besis, consist of both graphic and alphanumeric

ing tool by a variety of com-

Automated mapping provides pictorial representation of maps and plans using pree numerical information, while text-based data covering

types of housing and so forth are combined to facilitate analysis and planning.
The main benefits of their

use, according to the Chorley Committee of Enquiry set up by the Department of the Envi-ronment in 1987 to investigate the handling of geographic information, include fast and easy access to large volumes of data; the ability to analyse spatial characteristics of data and to search for particular characteristics or features in a given area; to link or merge one data set with another, and to produce flexible forms of output such as maps, graphs and sum-mary statistics tailored to meet particular needs.

Mr Glann Carver, a GIS con-sultant with information management company CMG, comments that access to data and its proper management are important elements in the suc-

"A well managed GIS in a local authority could, for instance, hold all the data for various departments, updating and distributing information to each department as changes were made. So, a map referenced by, say, a postcode could be called up on creen, and depending on the information required, be marked differently.

"Thus the housing department could ask for all empty council property to be displayed, highways for all traffic light systems, and social services for all registered childminders," he says. Such systems, however,

require an enormous effort of data input, and Mr Carver notes that from the initial deci-

The potential of geographic information systems will only be secured by co-ordinating the interests of the widely dispersed community of users

you certainly can't just din your toe into GIS. But we are talking about the complete integration of information

vital for users to think and plan strategically, and it is part of our job to help them do

ing may have slowed the progress of GIS and until recently confined its use to govern-ments and utilities, but the technology is being increasingly recognised as a powerful commercial tool, enabling companies more tightly to target groups of people as potential customers for specific projects

Retailers, such as Gateway

Stores have recognised how

GIS can help support decisions about store location, while sec-

tors such as the oil industry look to GIS to improve trans-

port, distribution and work

scheduling decisions

sion to develop a GIS, to final implementation, normally takes between five and eight

in the market in this country, these include McDonnell Douglas, the leading aerospace company whose information The extent of the undertaksystems division recently announced its Spatial Model-

ling System, which, according to Mr Barrie Laver, who is director of the company's Applied Graphics Group, puts paid to the long-standing gripe of academics that GIS is merely an adjunct to computer "Spatial database systems are distinguished by their abil-

ity to link graphics and text, thus creating smart graphics which provide a visual window into the administrative database," he says.

Pinpoint Analysis, another company active in geographic information systems, provides demographic and geographic information which, the company claims, when combined with clients' internal information. with clients' internal informa-tion will ensure more effective targeting and delivery of prod-ucts and services.

Pinpoint is among the lead-ing suppliers of highly detailed

a wide range of databases including a market-specific classification system geared to the financial services market, and a profiling system which analyses UK neighbourhoods into marketing-oriented catego-In keeping with the increas-

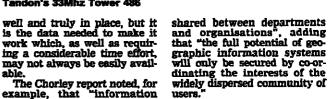
ingly high profile of personal computers, Pinpoint offers Geopin, a geodemographic information system which runs on a desktop computer and was developed specifically to meet the needs of marketers. Mr Martin Higgings, a GIS consultant with Pinpoint, explains that the system was designed for users who are not computing experts, but who are increasingly aware of the relevance of geographic information systems to their business and so require the facility to perform complex analyses with the help of simple pull-

down menus. The PC version of Geopin can be extended into a net-worked system and a compatible mainframe version is also

The technology for GIS is

ing a considerable time effort may not always be easily avail-The Chorley report noted, for example, that "information needs to be seen as a corporate resource and be more widely

Tandon's 33Mhz Tower 486



Lynd Moriey

CASE: engineering approach fails to match expectations

Consultants come under software attack

THE adoption of traditional engineering principles has helped to improve both the quality of computer software and the process which cre-

Software developers have turned increasingly to the disciplines of engineering to solve the problems which have plagued computer users since the beginnings of the industry

The engineering method, first adopted by the military and academic community in the 1970s, is universally acknowledged — if not univer-sally applied — throughout the com-puter industry.

It has spawned a large and growing market for tools, consultancy and re-training. It has caused businesses to re-evaluate their use of information technology and promised to change the skill needs of the industry. Software engineering makes labour-intensive program coding obsolete and offers greater control over the design and maintenance of software.

In spite of significant backing from industry leaders such as IBM and DEC, the engineering approach has not delivered its expected promise. Its supporters face new challenges. The shift away from proprietary, monolithic systems to multi-vendor, networked systems makes it harder

systems and has increased the pres-sure on software engineers. Mr Richard Barker, head of Oracle Software's software engineering operations, says this is the biggest problem facing the software industry in the 1990s. "The problem of designing one logical program to run across multiple hardware platforms will

INNOVATIVE software producers are giving a lift to

the maturing market for desk-top publishing systems. Publishers of larger maga-

zines and newspapers may once have only considered buy-

ing, say, a dedicated newspa-

per production system from one of the leading suppliers, such as Atex or Systems Inte-grators (SII) of the US, or

N. D. Comtec, a division of Norsk Data of Norway.

However, publications across Europe and the US are pro-

duced on Apple Macintosh's

range, for example, using stan-dard or enhanced software

packages from Quark (X-Press) or Aldus (PageMaker), which started life as suppliers of desktop publishing software.

These advanced software products operate on the standard DTP "platforms," such as

IBM's PC, the Mac or other

computers that can be bought

wide range of magazines and

newspapers.
The Spanish newspaper, El

Sol, in Madrid is just one

example of a large circulation daily paper produced on a Mac

The big issue is how

to achieve colour-tone

consistency

system, using software from

Quark X-Press.

"Many of the most innova-

tive of these newspaper and

magazine software systems are produced in the UK — they achieve great results on what, initially, were desktop plat-forms," says Ms Laurel Brun-

ner of Seybold, the indepen-

dent information resource group for publishing technol-ogy.*

Among these new UK soft-

ware systems which operate on the Mac are those from DPS

Typecraft; Talbot of Bourne-

mouth, and QED of Chelten-

Meanwhile, across the DTP industry, the \$1.83bn European

market is the biggest in the

world, and set to continue

growing as technology has

brought 500 years of graphic

the computer industry.

off the shelf to produce a

occupy the next few years," he says.
The engineering approach will play a leading role in solving the problem.
Until quite recently, software production was haphazard and mysterious. Good results were achieved by a mixture of luck and schooled intu-

However, in the 1980s the engineer ing analogy grew in credibility and software production was increasingly seen as a craft rather than an art. It was subject to scientific laws and the

The current tools were based on the software technology of 1983-84'

design and production of a computer program could be defined in the same way that an engineer specifies a bridge or a motor car.

This change coincided with increased use of computers as design aids across industry. Computer-Aided Design (CAD) — and the workstation technology it inspired — could be applied equally well to software design and developers quickly discov-ered how to apply it to their own

The results were lumped together under the umbrella name of computand packaged up for a market, eager to find ways to build better software

Software pioneers such as Mr James Martin went as far as to say that the application of formal engineering methods to business systems design not only improved the quality of software, they could also give a

business edge in the market. The vision is yet to be fulfilled. For every moderate success, there is equal evidence of failure.

Consultant Butler Cox noted in a report, published at the end of the 1980s, that Case tools only worked method - such as Mr Martin's information engineering - had been introduced. In other words, the principles of systems engineering must precede the use of software engineer-

However, there are other reasons for the apparent slow progress.

Mr John Lowrie, who worked with Mr Martin on Information Engineering Facility and now leads Information Architechs, puts some of the blame on consultants: "The consult-ing world took over the whole concept of Case and it resulted in com-plete culture shock in user computer departments. Case changes the skill needs – de-skilling the programming back-end job and re-skilling the front

end analysis and design.
"It is a fundamental change and means that companies need a lot of change management — an ideal mar-ket for consultants," says Mr Lowrie. ent – an ideal mar-He sees this attitude running against real advances in the software technology: "Consultants are not ware technology - they just want to put in armies of consultants."

A more compelling reason for the failures of software engineering is that the technological goalposts have

a time when software was built for a

Early Case tools were conceived at

ronment — usually a large IBM mainframe or a DEC minicomputer. The information technology systems of the 1990s will be based on networks of PCs, clusters of database "servers" and high-speed transaction processing computers. The current tools were based on the software technology of 1983-84. We are now moving into second-gen-

eration products based on late-1980s technology," says Mr Lowrie. He is cautious about raising expec-

For every moderate success, there is equal

evidence of failure tations too soon. "I don't think anv-

one really knows the answer yet is very early days. Our view is that we can evolve into other environ-ments because in Case you are maintaining designs not machine code. But it is few years off." Information Architechs, launched

in autumn 1990 as a spin-off from British Gas, says its future developnts in Case are aimed at multiple "We are attracted to the idea that future systems will be based on cli-

ent/server databases and local-area says Mr Lowrie. Mr John Lewis, vice-chairman of TPSYS. UK software engineering com-

pany, is cautious and points to IRM's problems with its Svetages Andrews tion Architecture (SAA) as an example of the difficulties. "IBM announced SAA four years

tures together. But its hasn't brought out much of it yet. At the same time it has its AIX/Unix developments, which lie outside SAA," says Mr Lewis. He sees Unix playing an increased

its three main hardware architec

role in software engineering, as a development environment and as a platform for applications. IPSYS is working on Case tools to support Unix alongside proprietary environ-

"It is a question of economics. If you set up IRM's AD/Cycle you need an expensive dedicated mainframe and PS/2 for every programmer. The cost is between £3m and £4m. With Unix workstations you can set up an equivalent system for about £1.5m and get far more power for your money," he says.

Oracle says it has plans to extend its Case products so they can produce applications for multi-vendor net-works. At the end of this month, Oracle will announce a new generation of Case products which will allow designers to specify the characteris-tics of the target environment and customise the system.

This Oracle says, has implications for users. The company intends to include more features which let the user extend the system and define that within the next five years the of a system and its live running will

This is a little optimistic. But there is no doubt that this is where software engineering is heading.

Phil Manchester

■ DTP: new software products for a maturing market

single machine and operating envi- ago to provide a model for bringing

Advanced technology lifts desktop publishing systems

Sales of \$3.9bn are forecast by 1994 – by then, there will more than 97,000 new desktop publishing installations up-and-running in Europe, with at least 18,000 of them located in this country, according to a report from Frost and Sullivan, the leading market research

But the rate of growth is likely to slow after 1992, as software and scanning input devices take an increasing

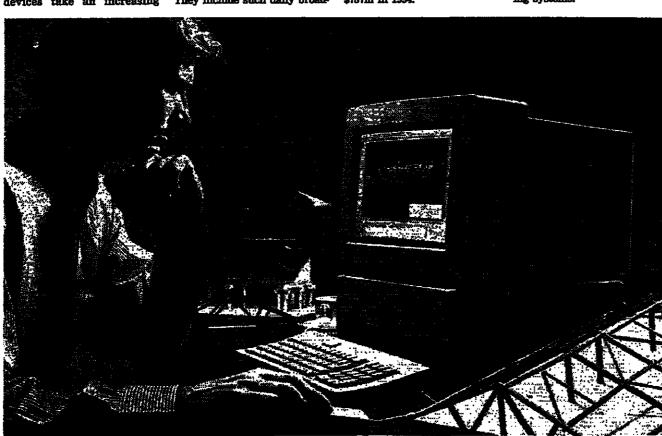
and new DTP systems. While most DTP software programmes are English-based, companies such as Apple and Adobe have tackled the lan-guage problem, with increasing sales in non-English speaking

Several leading Arabic news-papers and magazines are pre-pared in London on Apple Mac systems using Diwan software. They include such dally broad-

Awsat, Al-Hayat and Sawt al-Kuwait which are produced in London and transmitted electronically to the Middle East for printing.

Because a large proportion of software comes from the US, many packages are Englishbased and the UK is - and will remain - the largest market in Europe for DTP installa-tions, with sales reaching

includes a personal computer, a high resolution monitor, a "mouse" or other hand-con-trolled digitiser for positioning text and graphics; plus software for word processing, graphics and page-composition, and a laser printer. DTP systems, which may or may not be networked, are generally at the low end of a larger market for electronic publishing extenses.



Colour continues to be a big topic in the DTP world - as systems move on from basic monochrome to colour, the biggest issue is how users can achieve colour-tone consistency across various computer screens, proof printers and

presses — a facility which is especially important to advertising agencies, for example.

Innovation abounds in all areas of the market, with higher performance PCs and new software packages. For example, the processing speed of Postscript, the page-description language from Adobe, has been significantly enhanced in the past year as somputer speeds have increased.

Vendors of proprietory hard-ware for professional publishing systems are also "porting" software on to the Macintosh

Apple has announced a new operating system, called System 7, which give a new environment for many applications, particularly publishing.

One of these new enhancements is called "Publish and Subscribe" which allows users Subscribe" which allows users

The \$1.83bn European market is the biggest in the world

"live" material, such as text, artwork or up-to-the-minute In the European market for

DT systems, analysts expect an upsurge in demand in a number of application areas, particularly the production of magas, advertising literature and public consumption infor-mation. Scanning - and particularly the input of higher definition with greater greyscale and colour – is expected to push up the cost of scanners and attendant software.

Sales of core hardware, personal computers and printers in Europe could be worth almost \$1.3bn by 1994. *The Seybold Report, East-bourne, (0323 410561) **European Market for Desktop Publishing: Frost and Sullivan, London; \$3,800; 071 790 8488.

more informative systems

■ MULTI-MEDIA: tools to create

The potential of pictures

A group of 12 computer forms of data, and interact hardware and software manufacturers has put its name to a trademark.

This is not in itself so remarkable. The establishment of a trademark does not require any great degree of commitment. However, the object of this collection of compenies is to establish a way forward for the personal com-puter industry – and that future will encompass television pictures and sound as well as the more conventional aspects of data processing. The

name for this is multimedia. and the trademark is MPC -Multimedia Personal Comput-Most computer systems are constrained to store and dis-

play information in ways more acceptable to machinery than human beings. Text or numbers are the norm, and, where pictorial information is kept, it is most often in a form more than to a photograph. The storage of sound for computerised advanced.

There are exceptions to this a good example being the Domesday Project machines, which use a BBC micro to access all sorts of geographical and demographic data from a video disk, for display on a

However, in the mainstream of computing such applications

Spreadsheets were intended to provide a way of merely doing cash flows

are rare. One of the leading suppliers is VideoLogic, a British company. It provides a board which can go into an IBM-compatible PC or Macintosh. It can capture television pictures and sound for editing and inclusion in a presentation alongside other computer data. Integration of video, audio and conventional data within a

data processing system is known as multi-media. A muli-media system should enable the user to manipulate and view all such data. He could, for example, press a help but-ton, and not only view a manual but bring up an interactive tutorial, where a film can be seen and heard of a teacher

explaining a topic of interest. Such manipulation should be an integral part of the system's environment, this would mean that the user would see the film in a window alongside other data, and be able to drag it around the screen or desktop

If such machines were readily available, it is easy to see what their potential would be. Wherever pictorial informa-tion was needed it could be invoked as easily as more normal text. For example, a travel agent could store the whole of his catalogue of holidays, and then show a customer film of a chosen spot, with appropriate sound track, as well as the nor-mal textual descriptions.

Sceptics might argue that all this is more appropriate to killing martians on a screen and certainly the games or leisure market is where much of the has taken place. Multi-media enthusiasts, though, such as Mr Bill Gates of Microsoft. believe that, by the end of the 1990s, it will be the norm, and that computer users will expect to be able to deal in all

with their machines in far

more sophisticated ways than

they do now.
"Beethoven's Ninth Symphony is most readily enjoyed if it is delivered in audio form," says Mr Gates, in a piece on the subject published in Encyclopaedia Britannica. He has a

One wonders in what other form it might be delivered, apart from a printed score. Obviously, whilst the latter might be useful to a musician,

A multi-media system should enable the user to manipulate and view all such data

it leaves a lot to be desired to the layman. Merely to provide conventionally-displayed computerised information can be just as limiting because it does not provide the user with a form of data readily interpreted by the most appropriate human senses for the informa-

tion under review. Multi-media promises to deliver information in the most appropriate fashion, but with the same degree of control that you experience with any other computerised data. A company might, for example, need a sys-tem to enable them to look at geographical data. You could start by displaying a map. From there, the user might picture of the architecture, or at a list of companies which have offices there, and then at

pictures of their products. Those pictures could be revolved or walked around to enable the viewer to see them

from any angle.

They could be accompanied by a spoken sound track describing what is on view. At each stage, the correct medium would be used to communicate the information.

It would be easy to dismiss this as just another piece of enthusiastic marketing, a prod-uct looking for a problem. However, that would be to ignore the way other products have blossomed, and, if not changed the world, certainly made an impact.

Spreadsheets, for example were originally intended merely to provide a way of doing cash flows, to take the pain out of re-calculating when information changed, but that in itself could not account for

The establishment of a trademark does not require any great degree of commitment

their phenomenal success. Users have driven that change. and spreadsheets are now embedded within the corporate culture to such an extent that it is hard to imagine how we could have managed without

The Multi-media PC will not be an end in itself, rather it will provide the tools necessary to create more colourful and informative systems. Doubtless it will provide the games player with an even more realistic view of his imaginary worlds, but it could also bring the benefits of computing to a wider business audience than hitherto. At least, that is what the gang of 12 are bank-

Michael Powell

Tarantan dan Tarantan 191 = 2 - نحو

the knowledge gained in 30

years of interviewing and

recruitment will keep working. His judgments on skills and

personality, from "tactless" to

"shy on the phone", will be delivered on people he will never meet, through the

medium of a software product

called STARS II. It is an expert

system which performs prelim-

inary interviewing and delivers

some guideline judgments to

what expert systems are sup-

posed to do - distill the exper-tise of individuals and deliver

them in rule-based systems.

Five years ago, there were pre-

dictions that expert systems

would be a good area for soft-

ware sales, comparable with spreadsheets in the 1980s. By drawing on the advice of

expert systems, not-so-expert

form skilled tasks with the minimum of training, a process described as de-skilling.

In fact, the expectations

have been largely disappointed: some of the most vaunted expert systems pioneers have collapsed in the

shake-out of the last couple of

From the Japanese, who so publicly waved the banner of Artificial Intelligence (AI)

research as a platform for gov-ernment investment, very little

has emerged. Expert systems are nevertheless the most visible of all the AI techniques to

This is a typical example of

the human interviewer.

understand.

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specialists) through the first

tricky and time-consuming

steps of staff interviewing. Mr Schollick, of European

duces the next stage in software architecture.

Now NCR's Cooperation intro-

In the 1980's we saw the first industry

standard operating systems. And, as such, able

to be run on hardware platforms from several

manufacturers.

An integrating environment for the 90's linking users, applications, information

TINIX is a regimental producerate of UNIX System Laboratories, Inc. " Intel in a producerate of Intel Computation

have surfaced in commerce. Expert systems have become interviewing skills into STARS the domain of a few small spe-II. His expertise is packaged in the wording of the questions, cialised companies, working in and in the expert rules which niche markets, rather than a recognisable market sector. dictate which questions the However, they have penetrated STARS II chooses its own path through the labyrinth of various unrelated niche markets, not by presenting any mystique-laden breakthrough,

EXPERT SYSTEMS: great expectations and disappointments

A story of niche markets

up to 300 questions per interview, selecting the questions in the light of the previous but by integrating with software that users know and answers. It delivers judgments from a possible 2,000 descrip-The story of the STARS product is typical of niche along with carefullyworded suggested questions to probe sensitive areas. usage, because it uses an expert front-end to accepted psychometric testing tech-These help the human interniques. The system is for use viewer prepare for the face-to-face interview that no computer can emulate or replace. STARS supplies a consistency of decision making, by in-house interviewers, and has been designed to help non-experts (rather than personnel

Forecasts for KBS markets in Europe

and a short cut in assessing applicants.
This is typical of the niche

You've seen windows before. But never

anything that will window DOS, UNIX

and OS/2 applications all at the same time.

Which means that a user can have a window

servers, as well as windows to DOS

applications. All running cooperatively

to a host processor running a mainframe

on the same workstation.

application, windows to both OS/2 and UNIX[†]

Even better, Cooperation can analyse the

end user's activities, and combine data from

to be winning acceptance largely as an extension of other applications, and particularly in industries which are com-fortable with advanced technology. The best known examples

come from finance and indus-try. One Australian bank uses an expert system to judge credit card applications. In the UK, ICI uses the technique to assist paint analysis. The Financial Times Business Information report on Success ful Expert Systems, published in 1989, cited 20 large UK organisations using expert systems, including a few in mainstream areas.

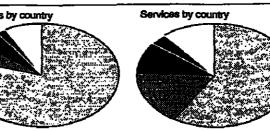
Mr Tim Johnson, director of London-based research com-pany Ovum, points to the com-mercial basis which is necessary to win wide acceptance of

any AI techniques.

"A lot of systems are for diagnostics – problem tracking of some sort, or providing consultancy, everything in fact from diagnosing medical conditions to finding errors in the conduction process for eas inproduction process for gas turusage is as a front end to access text databases, to help find the way through the maze of what information is available," says Mr Johnson. Ovum's report on the Euro-

were not quite what people wanted," he explains. Neuron Data, the US com-pany Ovum cites as having the largest share of the expert pean market for expert systems, Knowledge Based Systems: Markets, Suppliers and Products, puts the total for systems market in Europe, has product revenues in expert just opened a UK direct sales operation in London, a sign of US revenues of \$128m; excluits confidence in the future

Structure of knowledge based systems (KBS)



 USA \$324m
 France \$23m □ UK \$32m

ding expenditure on consul-

UK, once a hotbed of develop-ment, no longer provides

Ovum with ready examples of advanced technology. In part,

he blames the dissolution of

the UK Alvey programme, which funded a number of Al research projects, although there are some signs of life in

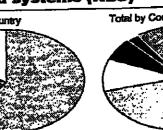
the Al community, and Ovum is about to publish a new

report on Natural Language, the first update since 1985. "Since Alvey declined, we've had to travel to France or the US to find the latest technol-

ogy, there seem to be fewer people in the UK to talk to. The US in particular has prog-

ressed more rapidly because US companies were quick to adapt when they realised that the early products of research

tancy and customisation.



Neuron Data sells Nexpert

its the emphasis on integra-

Object, an expert "shell" which

tion. This means working with existing databases, on over 30

different platforms, including

Macintosh, PCs, workstations, minis, and IBM mainframes,

and with different graphical

user-interfaces for ease of use.
"Expert systems are just another software technology,"

says Mr Richard Stow, Neuron Data's UK sales and marketing

manager who would like to dis-tance expert systems from the

"To customers it's just one

technology among many others. The old world of AI – to which Neuron Data never sub-

scribed - was about specialist hardware, very complex soft-ware needing esoteric program-

ing skills, systems with guru-level intelligence which learn

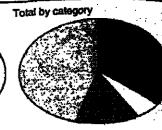
from experience — no mention of integration or portability. The old world has gone: what predominates is now a view of expert systems from the devel-

oper's perspective," says Mr Stow.

He divides Neuron Data

users into three categories; the

USA \$476m
France \$67m
Germany \$45m



Consulting & systems Training \$44m

Run-time software \$105m

tain machines with existing

"We'd like to think that

tasks and schedules.

including four UK sites for its Expert Configurator which is built on to the MAC-PAC manend users, the providers of packaged software, and systems integrators such as ufacturing (MRP II) package on IBM AS400s. The expert from end allows the user to match up a specific task needing cer. Andersen Consulting. Among

and computer manufacturer Tandem, which uses online expert systems are becoming a mainstream technology," conexpert diagnostics for its Integcludes Mr Stow. In the future you might see companies amassing knowledge-bases with PC networks and shared rity \$2 system.

Mr Stow believes the UK market is probably 12-18 months behind the US in terms of take-up of expert system technology, but it will catch information, you might even be able to put a value on know-

Andersen Consulting has

notable US Nexpert users are

Manufacturers Hanover Trust,

which has built a system called

Inspector, for monitoring

fraudulent or high-risk deals,

ige as a corporate asset Claire Gooding

Object Oriented Programming

Reaching a far wider audience

THE computer industry throws up new jargon with monoto-nous regularity and nowhere is this more true than in the software sector. Software developers appear

to adore arcane language and have produced a succession of intriguing, high-sounding phrases to describe the arte-facts they create. Non-procedural program-

ming languages, life-cycle man-agement, user-friendly systems and relational databases are examples from the last decade. The start of the 1990s has seen the arrival of another:

Its main virtue for the mar-keting department is its universality. It can be applied to virtually every facet of soft-ware. In the last couple of years databases, languages, design methods and systems architectures have all become object-oriented.

Object-oriented design suddenly achieved a higher level of legitimacy when, month, the important US software company Microsoft the Object Management Group (OMG), an industry group founded to promote object-oriented standards. IBM is expec-ted to follow and OMG can now boast all of the prime movers in software technology

Although OMG is primarily a technical body, it will exert a crucial influence over the crucial influence over the design of future computer systems. The concepts of object-oriented design reach into the heart of information technology systems and the OMG and its members will be responsible for laying the foundations of the new order.

That IBM and Microsoft should suddenly make their interest public at this time is no surprise. The commercial exploitation of object-oriented

In a report sponsored by the OMG, Ovum, the UK researcher, forecasts a Euro-

Although it is a new way of looking at computer systems, object-oriented design has its roots in the past. The approach views computer systems as a set of objects, which can be directly related to objects in the real world. An involce is an object; a manufactured product is an object and they are both represented as such within an object-oriented computer sys-

evolved out of the same research at Xerox Palo Alto Research Centre (PARC) which produced the windows-icon-mouse-pointer interface popu-larised on the Apple MacinSimilar interfaces, such as

The Apple Macintosh and Microsoft's Windows 3 are both described as object-oriented

a paradigm shift in thinking about how computer systems can be built. Objet-oriented design

However, behind the awkward American-English (it should, of course, be object-orientated), there is a serious

as its members.
OMG was founded in 1989 by a group of companies who wanted to push the object-ori-ented approach into the lime-light and supervise the creation of common standards. Membership has tripled in the last year and now numbers

doitation of object-oriented design is just beginning, with bullish predictions for growth for tools which conform to the emerging standards.

pean market worth \$196m this year, rising to \$1.6bn by 1996.
The US market is expected to be even larger with total product revenues of more than \$2bn by 1996. Ovum's analysis is based on

growth in three areas: languages and tools, developers' tools, databases and CASE tools. "Object technology has emerged from the early days of religious fervour and is experiencing rapid acceptance." iencing rapid acceptance," says

Object-oriented design

Microsoft's Windows 3, are also available for IBM-compatible personal computers.

interfaces and, while this is true, the object-oriented technology goes much further than Object-oriented evangelists in the software industry talk of

includes several important

ideas which help to clarify systems design and make bet-ter use of existing technology. The formal definition of object-oriented systems cover useful concepts such as inheritance and code re-use. Inheritance allows different objects to share the same characteristics. All invoices, for example must contain an invoice date
- a characteristic which is inherited by every object called

an invoice. The re-use of code is of more pragmatic use and can be seen in some personal computer, software. A PC equipped with Microsoft Windows 3, for example, will use the same displaysoftware which sorts out text

The big virtue for the marketing department is its universality

and graphics) in many different applications.

Language developers are in the frontline in object-oriented technology with Microsoft and Borland both offering language compilers which are as object-oriented. Database developments have

been restricted to specialist suppliers such as Objectivity and Ontologic, But both Oracle and Ingres among others are reported to working on the technology and will deliver products later in the 1990s. Suppliers of computer-sided software engineering (CASE) tools, especially those at the technical end of the market, have been at the forefront of the technology with US companies such as interactive

Cadre Technologies leading the More important, the OMG is well on the way to formulating the first of the standards which will allow object-oriented systems to work across differ-

ent computer systems.

The OMG published its draft architectural specification last year and has requested tenders for the technology which will form the core of a method to control objects and the communications between them.

Later this year it is expected to publish a formal definition of what an object is and this is likely to sour on the tool later.

likely to spur on the tool, language and database provider to produce object-oriented Object-oriented design prom

ises to change computer systems design beyond recogn tion in the next decade. One of the advantages of the approach is that it opens the door to computing power - what was once called programming - to a much wider audience.

Although complex objects such as invoice transactions will still need professional expertise, less crucial pro cesses can be engineered by users themselv

They will be able to combine their objects with those that already exist within a system and produce their own custom ised working environments.

and networks. several windows to make the user even more

NCR

Open, Cooperative Computing. The Strategy For Managing Change, productive. So, instead of having to access a number of screens, a business executive can find all the needed information on one screen automatically.

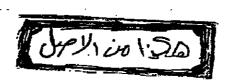
Because Cooperation uses object-oriented technology, both information and any operations that can be performed on that information are bundled together. (The data can just as easily be text, graphics, voice or video - or any combination of them.)

When users want to access or manipulate an object, such as a budget to be revised or printed out, they simply click on an icon to request the object - whether that object resides across the hall or around the world.

And if they want information, an Information Storage Manager enables users to retrieve documents anywhere in the enterprise by date, key words, author or content - without needing to know where the file is, or what its name is.

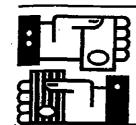
Cooperation will run on any industry standard Intel 386-, or 486-based PC running DOS at the client, and any industry standard Intel Micro Channel based computer running OS/2 SE or UNIX V.4 at the server. And what we have just described is only a tiny part of what Cooperation has to offer.

You need to see it to believe it. For further information, get in touch with NCR.



EUROPEAN FINANCE AND INVESTMENT

PORTUGAL



As Portugal faces increasing political and economic change,

the time of easy successes for the financial community is over, reports Patrick Blum. The sector is experiencing stronger

competition from abroad and further restructuring is needed.

Tougher days ahead

THIS YEAR is likely to go by unusually quickly for Portugal. First, it is having to speed up the pace of reform to meet next year's European Community deadlines for the internal market. It must prepare also for its first EC presidency starting on January 1 — exactly six years after it joined the Community.

Refore that a general electronic property of the prope Before that, a general elec-tion, due by October at the latest, will decide whether Mr Anibal Cavaco Silva, the prime ninister and leader of the ruling Social Democratic party, remains in power for a third

term of government.
At stake will be a particular model and style of government whose achievements and short-comings are likely to come under close scrutiny in the run-up to the election.

The result of the vote cannot be forecast, but the tenant at the Sao Bento prime ministe-rial residence will have his work cut out. Economic pres-sures are building up in spite

of some striking successes.

In the years that followed its accession to the Community, Portugal benefited from propitions domestic circumstances, a favourable international environment and considerable goodwill and assistance to help it modernise and catch up with its European partners. But it is still a relatively

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poor country, and after five years of rapid growth and development, new problems have emerged and some old ones are re-asserting themselves with a vengeance.

The good news is that Portugal continued to grow at a fas-ter rate than any of its European partners last year with



The trading floor of the Lisbon stock exchange: see story, page 4. On other pages; the banking scene; bank profile pages 2 and 5; the economy; key facts and indicators; insurance, page 3; foreign investment, the central bank, page 4; Madeira; doing business in Portugal, page 6.

it is keeping interest rates at punishingly high levels squeez-ing industry. Traditional sec-tors from agriculture to tex-tiles are inefficient and facing their meet certifies are in-

their most serious crisis yet.

In the past few years, the government has carried out or

began several important reforms. A land reform has

opened the way for privatising

the large collective farms, the gradual privatisation of compa-nies nationalised in 1975 and

1976 has started to reduce the

weight of the public sector in the economy, new labour laws have relaxed some of the rigidi-

the gross domestic product rising by 4.4 per cent. Investment, up by more than 8 per cent, remained sturdy, and foreign investment rising by over 60 per cent was buoyant. Official unemployment was negligible and industrial activity high. The current account was almost balanced.

The bad news is that inflation at 13.4 per cent - more than twice the EC average resisted official efforts to bring

The budget deficit at close to 7 per cent of GDP is proving equally difficult to reduce, and

ties of the labour market and eased conditions for dismissals a tax reform has made tax colection more efficient, and the financial sector has seen the most extensive liberalisation and deregulation of all, spurred along by the need to meet the approaching 1992 deadline for an EC-wide internal market in financial services. But there is still much to be done.

Mr Rui Machete, past minis

ter in several governments, for-mer president of the Social Democratic party and the chairman of the parliament's budget, finance and planning committee, identifies four areas in need of fundamental structural change: agriculture, industry, social welfare and

education.
Portuguese agriculture employs about 19 per cent of the active population but accounts for only six per cent of gross domestic product.
Fewer than 15 years ago, Portugal's population was predominantly rural, yet it cannot feed itself and depends for more than half of its food on invocate.

Part of the problem is due to an excessive division of the land into a plethora of tiny unvisible plots, mainly in the north, and inefficient huge cooperative farms created after the revolution mainly in the the revolution, mainly in the south.

Productivity is among the lowest in the EC and most farmers survive thanks to generous subsidies. Mr Machete says the land structure and the system of agricultural price subsidies will have to change, though he expects it will take several years of transition.

Industry also faces the challenge of the internal market. Most Portuguese companies remain unprepared for the inevitable increase in competi-tion after 1992, and continue to rely on old production methods, low wages, and outdated management methods. There are exceptions, and larger companies, many of them foreign



The Lisbon waterfront — the Finance Ministry, Stock Exchange and several government departments are located in this area of the capital city. Lisbon is also Portugal's chief port and files on the right bank of the Tagus River, 13 kms from the river's entry into the Atlantic Ocean, at the westernmost tringe of the European continent. Portugal's other main towns and cities include Oporto, Setúbai, Colmbra and Braga. Pictured below: Lisbon's main square, the Praca do Comercio. Pictures by Ashley Ashwood.

or with international links or partners, find they can achieve productivity levels comparable to those in other European countries. In contrast to the growing apprehension of some Portuguese business groups, foreign investors exude optimism, seeing in Portugal's rel-ative backwardness as the springboard for a period of sustained and dynamic develop-

Privatisation is a vital element in the strategy to open the economy to market forces, but the process has so far been slow

ment. In the long run, foreign investment can have a ripple effect throughout the economy, encouraging the development of local suppliers and helping to raise quality standards, but the adaptation will be difficult. A large number of small and

medium-size companies will face a straightforward choice: modernise or close - many will probably have to close.

Industrial restructuring will lead to job-losses which will have to be alleviated through a more efficient and expanded social security system since it will not be possible to retrain

all displaced workers. Education is in a sorry state. Teachers are under-paid, career conditions unattractive

and schools and colleges plagued with recurring strikes.

Illiteracy at anything between
15 per cent and 20 per cent of the population, depending on the statistics, is still wide-

As old industries give way to ing and retraining have become more important. The EC is helping through its social fund to finance training in private industry. But as Portugal prepares for the future, education will need greater resources with more emphasis placed on quality.

Reducing the weight of the state in the economy is another huge task. In economic terms, the state accounts for nearly 40 per cent of GDP, but its weight in particular sectors

In the financial sector, it still controls about 80 per cent of the market. Once the privatisation programme is completed, the two big financial groups remaining in state hands together will have between 30 per cent and 40 per cent of the market. Privatisations are a key element in the government's strategy to reduce the weight of the state and open the economy to market forces,

but the process has been slow and prone to delays. Conditions are less favourable now than they were 18 months or a year ago, investors have become more wary especially since share prices of privatised companies have



tended to fall below their original, often high, selling price. This may not matter too much for hig domestic or foreign groups whose objective is to win market positions, but it has shaken the confidence of smaller investors.

Diminishing the size of the state is only part of a wider need to reduce bureaucracy and bureaucratic interference.

"There is an enormous bureaucracy run by incompe-tent people who interfere in too many areas and in exces-sive detail," says a senior businessman airing a common complaint. Political parties and trade unions which should counter-balance the state, often operate as if they were state institutions, making it difficult

at times to dissociate adminis trative from political decisions "we've progressed and reached a higher stage of prob-lems and issues to deal with," Mr Machete says. Some critics are less charitable and argue it has wasted a unique opportunity since the government had a free hand with an absolute majority in parliament.

The truth probably lies somewhere in between: quite a lot has been achieved but a lot more could have been done. Given the scale of the chal-lenge, the task of restructuring the economy and the state may have only barely began, but the process will have to be accelerated if Portugal is to develop into a modern and competitive economy.

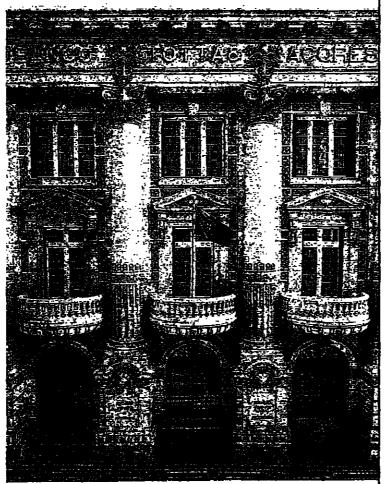
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become one too. Come to TOTTA - the

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BRNCO TOTTA & ACORES

Banco Totta & Açores was the first public sector Bank to open its capital to private enterprise in 1989 when 49% of the capital held by the State was sold to the public. In 1990, after the privatisation of an additional 31%, the Bank's capital was increased from 25 to 30 billion Escudos; this raised to 85% the percentage of capital owned by the private sector.

In all respects 1990 was a good year for Banco Totta & Acores. The size of the Bank, its financial soundness and its cash-flow generating capacity were all substantially improved while forecast initial targets, including those for the privatisation process, were exceeded.

All these performances are highlighted in the figures shown below.

1990 HIGHLIGHTS (Consolidated)

	1987	1988	1989	1990
			-	
Size Indicators	į			
Net Assets (106 Escudos)	580974	662448	825576	1085506
Net Worth (106 Escudos)	17472	21743	38757	53529
Total Staff	4656	4539	4376	4246
Branches	140	145	155	182
Profitability				
Cash-Flow Before Tax(106 Escudos)	8524	11598	20926	36847
Profits(106 Escudos)				
Before tax	558	1051	3230	11120
After tax	558	1051	3080	9680
Cash-Flow Before Tax/Average Net Assets (%)	1.5	1.9	2.8	3.9
Cash-Flow Before Tax/Average Net Worth(%)	97.4	81.9	74.8	99,4
Profits After Tax/Average Net Worth(%)	6.4	7.4	11.1	26.1
Profits After Tax/Average Not Assets (%)	0.1	0.17	0.41	1.0
Productivity				
Average Net Assets /				_
/Average Number of Employees(106Esc)	118.16	135.23	166.91	221.65
Personnel Costs and General Expenses/				
/Average Net Assets (%)	2.2	2.3	2,2	2.0
Total of Employees/ Branches	33	31	28	23
Market Indicators				
PER	_	_	26.3	8.86
PCF	_	_	3.9	2.42
PBV	_	_	2.06	1.63
Divideads per share (Escudos)	_	_	50	280
Diamero ha game (resense)				

XII

THE BANKING COMMUNITY

Preparing for turbulence

IN THE past five years the Portuguese banking sector has risen swiftly from a very low base. The question troubling bankers now is whether the growth can continue in the

"There have been five terrific years of banking," reflects Mr Carlos Rodrigues, president of Manufacturers Hanover (Portugal). Margins have been high, competition from the state-owned banks - which even after the latest privatisations account for 75 per cent of the sector - less than vigor-

Up until earlier this year, the financial authorities maintained a strict credit ceiling on bank lending. According to Mr Timothy Bradbury, managing director of Lloyds Bank, Portu-gal (recently hought by BBV, Spain's largest bank), this meant that corporate customers "were competing to borrow. In the meantime, the private banks could buy liquidity from the public banks and lend it out under their own credit ceil-

ing."
Even now, savers are paid
14-15 per cent on their deposits, subject to 20 per cent withhold-ing tax, which works out at less than inflation. Banks then lend out the funds at 26 per cent retail and 22 per cent wholesale. With such hand-some margins, it is not surpris-ing that the banks have pros-

The growth of the sector as a whole is captured in the extraordinary story of Banco Comercial Portugues. When the bank started in 1986, it had 205 shareholders, capital of Esc 3.5bn and 255 employees. Now it has nearly 25,000 shareholders, capital of Esc 66bn and it

employs 2,500 people.

There is more turnover in BCP shares on the Lisbon stock exchange than in any other company's shares. Coming from nowhere five years ago, BCP is now one of Europe's top 100 banks in terms of capital strength and one of the 60 largest in terms

of market capitalisation. The banking industry today cannot be understood without remembering that in 1975 all Portuguese banks were nationalised. It was not until ten years later that the govern-ment promoted legislation allowing private banks to be

gulation drew six foreign banks into Portugal within 18 months, and local entrepre-

neurs founded four banks, of which BCP is the best-known. This sudden influx of competition had a profound effect on the sleepy public sector banks. They were exposed as not

from Portugal's private-sector banks, a feeling shared by the large state sector banks such as Banco Espirito Santo e Com-ercial de Lisboa, which is also hoping to be privatised later



Banco Espirito Santo e Comercial de Lisboa: Portugal's

had more employees per branch than any other Euro-pean country and fell behind by all other yardsticks - but downright insolvent.

Throughout the 1970s and early '80s, we had a social role and we were not driven by normal financial and economic goals," reflects Mr Pedro belo de Sousa, president of the Banco Fonsecas & Burnay, a state owned bank which is hoping to be privatised later this year. By the mid-1980s, the consequences of this uncommercial approach were clear the average percentage of bad credit to total loan portfolios among the state-owned banks had climbed to 20 per cent.

"Many of the borrowers simply didn't exist," quips one banker. Add-in unfunded pension liabilities and dubious accounting policies and the result was most of the stateowned banks were insolvent.

The reaction of Fonsecas to the new environment is typical of that of the whole stateowned sector. It shrunk its staff by 25 per cent. It shored up its balance sheet by selling off properties amid a bull market for real estate. It sorted out its provisions for bad debts and unfunded pension liabilities. It mation technology.

Fonsecas now considers that it is virtually indistinguishable

this year. The tidying up pro-cess completed, these banks merely grossly inefficient by opening programme, and aims

like to think of the state as just another shareholder. In this vein, Mr Alipio Dias, president of the Banco Totta & Acores, in which the govern-ment retains a residual 15 per cent holding, says "the trea-sury is a shareholder like any other." According to Mr Alex-

andre Vaz Pinto, president of the Banco Espirito Santo e Comercial de Lisboa and the chairman of the Portuguese Bankers' Association, the average percentage of bad debts to loan portfolio is down to 14 per cent across the state-owned

More recently, the public and partially-public banks have shared in the general prosperity of the sector. For example, the 85 per cent priva-tised Banco Totta reported a 76 per cent increase in cash flow last and assets were up 33 per cent, with profits rising from Esc 73m in 1985 to 3.26bn in 1989. This year the rise in cash flows will be less, but lower provisions will mean that net profits rise by as much as 50 per cent. The pattern is repeated at

Caixa Geral de Depositos, the gargantuan state-sector bank which on its own has 25-30 per cent of the Portuguese banking

market, a fact easy to understand when one considers that it has 8.5m customers out of a

population of 10.5bn. Here, profits have risen from Esc 8.9bn in 1984 to Esc 29.9bn in 1989, with cash flows rising from Esc 15.5bn to Esc 82.2bn. Caixa, which will never leave the public sector, is planning an aggressive branch-

> ase its branches from 420 to 500 by the end of next year. Caixa is not alone in expanding its branch network - all the other banks are doing it too. This is but one symptom of increasing competition in the banking sector. The government has yet to deregulate its rules forbidding current accounts at anything paying anything other than nominal rates. But relaxation of this rule is expected sooner

Another factor behind the Another factor beauth the increasing competition is the presence of foreign banks – in particular Spanish banks eager to repeat in Portugal the success they have had on domestic territory. More significant, though, is the recent abolition of the credit ceiling. This frees the banks' lending capacity. Combined with increased competition in the market for retail deposits, it is inevitable that banks' spreads and profit mar-

gins will narrow.
"When we were founded we realised we only had a limited time to reach a certain dimen-sion," reflects Mr Jorge Jardim Goncalves, President of BCP.

"In 1985, we calculated that we wouldn't face intense competition for 5-7 years and that we could reach a certain market share by launching innovative products and introducing new technology. We were were always clear that in 1992 and afterwards there would be intense competition from foreign and domestic private

Competition from foreign banks will be restrained for as long as the government keep in place its restrictions on short term capital flows. Looking the days of easy money are over - "it's going to be war out there," he said, "and it's

Patrick Blum records the end of an era for Lloyds

Spanish banks invade

distinctive rich, blue colours of Banco Bilbao Vizcaya (BBV), Spain's biggest banking group, will be hoisted on to the front of the modern headquarters of Lloyds Bank Portugal on Lisbon's busy Avenida da Liber-

The occasion will mark the end of an era for the British bank which put down its first roots in Portugal in 1865 as the Anglo Portuguese Bank, later transformed into the Bank of London and South America, and which has operated under its present name since the 1970s.

One of the few banks to escape the 1975 revolution's sweeping nationalisations Lloyds kept and developed a small but highly profitable business niche in the country. When the bank's sale to BBV

for £110m is approved by the Portuguese authorities, it will also highlight the recent inroads made by Spanish banks into the Portuguese mar-ket. It is not quite a flood, but it is already a good deal more than a trickle.

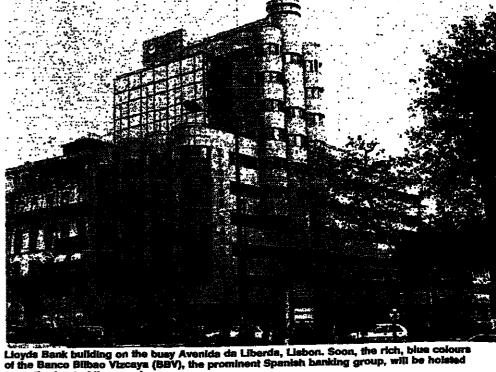
Apart from BBV, Banesto has bought a leading stake in Banco Totta & Acores (BTA),

Banco Santander has a sub-stantial share of Banco de Comercio e Industria (BCI), and Banco Exterior de Espana has a main branch in Lisbon and plans to open several more branches this year. Furthermore, Banco Hispano

Americano is waiting for authorisation to transform its Portuguese investment com-pany into a bank, Banco Cen-tral has a representative office and a standing request for a branch and several regional savings banks have representations in Portugal.

All this, of course, excludes specialised investment, leasing and real estate companies. But whereas most Spanish banks chose either to build up their stakes gradually in local institutions as Banesto has done through BTA's privatisation or start from scratch with an investment or fund management company, BBV has taken a different route by buying up an existing private bank with a small but well-established network of a dozen branches.

It was an unexpected move, but one which fitted the Spanish group's strategy. Mr Gon-



to the front of the prem

zalo Terreros, BBV international manager, says the bank wanted to be in the Portuguese market to offer universal bank-ing services with an emphasis on corporate and private bank-

He sees Portugal as a rapidly



BBV is Spain's biggest banking group

tions similar to the Spanish market in the early 1980s. Spain and Portugal are the fastest growing areas in Europe, he says. Lloyds was chosen after a

study of various other possibil-ities including that of buying a bank that was being privatised. This was discarded as too slow, too incertain, and as a potential source of conflict with the Portuguese authorities.
BBV wanted to avoid the controversy that surrounded Banesto's move into BTA as well as the need to have to negotiate with too many diver-sified shareholders.

At the same time it was not seeking a commercial bank with a large branch network. For size and nature of its business Lloyds fitted BBV's ambitions.

Calculating that Lloyds which had been cutting back on its international operations may be willing to sell, BBV approached the bank and was able to clinch a deal within a relatively short time. "We were sure that the bank

would be healthy, productive nd without bad surprises. So the Lloyds trademark was a guarantee," Mr Terreros said. Another of the bank's assets with BBV was that although Lloyds was not a typical retail bank, it had a network of branches and operated in all BBV's target markets: wholesale and retail banking with a good corporate customer base in the state and private sectors, among medium and small

companies, and with a solid private clientele of high net worth individuals.

Since 1986, Lloyds has more than doubled its total assets which where valued at Es87.3bn at the end of last year with profits of Es1.2bu.

Once it is authorised to transform the bank into a 100 per cent BBV-owned Portuguese subsidiary it intends to build on the bank's present strengths and seek to capture a greater chunk of the market among small and medium-size companies and among private

"We think we will be able to develop immediately new products, new customers and markets, and compete with highly attractive products in those parts of the market that are growing very fast," Mr Terre

Plans are to increase the number of branches to around 35 within 18 months. In the longer-term, the goal is to establish BBV as an important Portuguese bank with "a Portuguese team and character, not a marginal for-

eign bank".

This announcement appears as a matter of record only.

10th April, 1991



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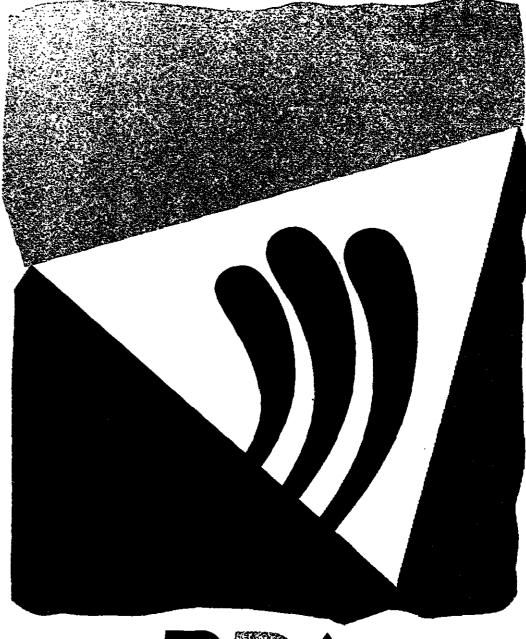
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IANCO PORTUGUÊS DO ATLÂNTICO Oporio, Lisbon, London, Madrid, Paris, New York, M

Although the economy appears to have performed remarkably well, Patrick Blum discovers . . .

Serious underlying problems

AT FIRST sight Portugal's economy appears to have performed remarkably well. Last uct grew by 4.4 per cent, exports surged, investment was up by 8.7 per cent with direct foreign investment rising by more than 60 per cent to \$3.6bn, the current account balance closed with a hardly noticeable \$61m deficit, and unemployment was below 5 per cent. Only inflation, at 13.4 per cent for the year, appeared to cloud the horizon.

PARIAL APRIL DIN

ada/

Yet, in spite of the good news which merited praise from the Organisation for Economic Co-operation and Development (OECD) and the European Commission, there remain serious underlying problems of which inflation — which officials seem at times to perceive as only a temporary difficulty caused by too much success — is just one.

True, exports are rising, but not as much and not sufficiently fast to overcome an enduring trade deficit. Mer-chandise imports have grown much faster than exports. The value of imports of goods rose by 31.5 per cent from \$17.6bn in 1989 to \$23bn last year, while the value of exports of goods grew by a sturdy but more modest 25.2 per cent from \$12.7bn in 1989 to \$16.4hn. The deficit in traded goods rose by almost 35 per cent in 1990, resuming an upward frend that had been reversed in 1989.

It will not be easy to over-come this imbalance, although some important manufacturing help in the future. But for the time being. Portuguese manuexceptions, to be of lower quality and geared to the mass market Inefficient production methods are compensated for by the lowest labour costs in the Community, Portugal's largest market. But that comparative advantage is being increasingly eroded as competition from other EC and non-EC producers becomes more intense, and as wages rise to come more into line with those in the rest of Europe.

Mr Jose Alberto Tavares

Moreira, governor of the Banco de Portugal (central bank), argues that the growth in exports demonstrates that Portuguese industry is becoming more competitive: "In spite of the strong appreciation of the escudo we have managed to





benefit fully from European

integration and European eco-nomic and monetary union

(EMU) inflation must be brought under control and the

inflation differential between

Portugal and its European partners reduced. But while

inflation was brought down from its 1984 peak of nearly 30

per cent to an annual rate of

9.4 per cent in 1987, it has edged back up since then. Mr Miguel Beleza, the finance minister, appointed more than a year ago, is more

cantious than his predecessor

when it comes to forecasts, but his own 10.5 per cent target, later revised to 11 per cent, still fell short of the 13.4 per cent annualised average rate

actually achieved - more than

This year, the government

double the European average.

hopes to bring down inflation

to a maximum 11 per cent. Mr Tavares Moreira says this is feasible though it will be diffi-

cult because of strong demand pressure. "It is not easy to

deflate an economy under

these conditions," he says.

There are signs that price rises may have slowed a little

with the annualised average rate in February falling 0.1 of a



Study in contrasts: modern technology in

have a current account practically in surplus. This shows that there has been a consider-able restructuring of the economy. There have been extensive productivity gains."

That is true in some indus-

tries though the extent and sig-nificance of the restructuring is less certain. Traditional sec-tors such as textiles or agriculture – the two biggest areas of activity – are deeply in crisis. Repeated complaints about high interest rates - at between 21 per cent and 23 per cent for prime corporate clients for a year, or 24 per cent to 26 per cent for small compa-nies - and recurrent calls for help from Portuguese business groups in the face of foreign competition suggest that industry remains deeply apprehensive about the future.

The current account has improved with the latest figures for 1989 showing a surplus of \$139m instead of the forecast deficit of \$550m, and initial likely to be revised - figures for 1990 showing a deficit of deficit of \$1.2bn. But this was achieved not simply because exports grew - though that helped - but in large part because of higher than expec-

ted earnings from tourism, up by almost 30 per cent from \$2.1bn in 1989 to \$2.7bn last year, and higher emigrants remittances worth \$4.2bn.

(ERM) of the European Mone-tary System (EMS), a move the government would like to Another factor may now also be entering the inflation equament and some of the unions to keep wage increases to 13.5 per cent may limit rises in the

cially in parts of the private sector, is causing strong upward pressure with pay deals this year reaching 15 per cent. Yet wages must go up if higher productivity gains are to be achieved.

The government is caught between conflicting pressures. In the past, interest rates were kept high administratively as part of efforts to curb credit demand and consumption to fight inflation. Now, with moves towards market set rates, the main and enduring cause of high interest rates remains the budget deficit which represents between 6.5 per cent and 7 per cent of GDP. Government borrowing effectively sets the rates for the market. Privatisations which

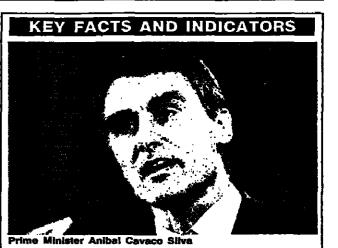
\$1bn, cannot help since revenue from the sale of stateowned assets cannot be used to finance the budget. Meanwhile, high interest rates and a stable currency encourage capital inflows thereby adding to inflationary pressures.

Moreover, as the economy is

opened up and the financial system is liberalised it is increasingly difficult for the authorities to control capital movements. Short-term capital inflows proved especially troublesome last year having increased from \$770m in 1989 to \$1.8bn which represented more than one third of all capital movements in 1990. To discourage these mainly speculative capital movements the authori-ties tightened up foreign

greater fluctuations in the value of the escudo by ending the practice of maintaining a "crawling peg" according to which the escudo was depreciated by 0.25 per cent a month. The immediate effect, however, was to send the escudo up rather than down. So those hoping for a depre-

ciation of the escudo are unlikely to see their wishes satisfied. "We have to see the exchange rate level on a long-term basis, and (on that basis) the escudo is about right at the moment," Mr Tavares Moreira says, adding, "there is no alternative to maintaining a very firm monetary policy". And that means the squeeze between high real interest and exchange rates is likely to con-



Area	92,390 sq km
	10.34 million (1990 estimate)
Head of State	President Mario Soares
Prime Minister	Anibal Cavaco Silva
	Escudo (Es.)
Average exchange rate	1989, \$1 = Es 157.46;
	1990, \$1 = Es 142.55

ECONOMIC INDICATORS

Total GDP (\$bn)	45.4	59.6
Real GDP growth (%)	5.4	4.4
GDP per capita (\$)	4338	5656
Components of GDP (%)		
Private consumption	63.6	n.a.
Gross fixed investment.	26.7	n.a.
Stockbuilding	2.6	n.a.
Government consumption	16.1	n.a.
Exports	36.6	n.a.
Imports	- 45.7	n.a.
Consumer prices (% change	-10	71.44
p.a.)	12.6	13.4
p.a.) Unemployment (% of labour		10.1
force)	4.8	4.6
industrial output (% change		
p.a.)	5.0	6.0
Reserves, minus gold (\$bn)	9.9	14.5
Discount rate (% p.a, Dec.)	14.3	14.5
Total external debt (\$bn)	17.8	19.6
Current account balance (\$mn).	139	-61
Exports (\$mn)	12,716	16,420
Imports (\$mn)	17,594	23,001
Trade Balance (\$mn)	-4,878	-6,581
Main trading partners (1989, %		
by value):	Exports	Imports
West Germany	15.7	14.4
France	15.1	11.6
Spain	12.5	14.5
UK	12.3	7.4
Total, European Community	71.5	67.9
		i

tion. In recent years, wages have lagged behind rather than led inflation, but this could be changing. An agreement last autumn between the govern-2987 5000

2591

Painful changeover

PORTUGAL is grossly under-insured by the standards of the European Community.

According to a study conducted by Arthur Andersen, total premiums in 1989 amounted to Es20bn

(US\$1.5bn), which works out at about 3 per cent of GDP - less than half the EC average. Premiums per head are around one-eighth of the level of the rest of Europe.

The opportunities for such an underdeveloped sector are enormous, especially in view of Portuguese people's high pro-pensity to save. Recognising this, the number of insurance companies operating in Portugal has risen from 50 in 1986 to 65 now and an estimated 75 by

the end of the year.

Like the banking sector, the insurance industry was owned and controlled by the state until the mid-1980s. The pace of change has been slower, though, than in banking and deregulation has in many cases brought pain rather than pros-

The market is extremely con-The market is extended to the centrated — the six biggest companies account for approximately 70 per cent of the industry. In 1986, all were stateowned, by now one is totally wineted another is in the private, another is in the throes of privatisation, and three more are to be sold off by the end of next year.

Between 1984 and 1989, the state relinquished its control over tariffs in segment after segment of the insurance market. This ushered in an era of fierce price competition, which according to Mr Ruy de Carvalho, president of the Portuguese Insurers' Association, lingers on still.

Thus, in sectors such as motor insurance, big-ticket industrial insurance and workmen's compensation, premiums have fallen dramatically recently. "After decades of control competition is now very lively," Mr Carvalho acknowl-

premiums rose most comfort-ably last year, by 26 per cent, twice the rate of inflation. It is the life business which offers the biggest opportunity for profitable expansion. This accounts for only 20 per cent of the market against an average

of 40 per cent across the EC. In total, the life market grew from Es45.5bn to 69bn over 1989-90 and the non-life from 175.5bn to 221bn.

New companies – such as Ocidental Seguros, the insur-ance subsidiary of the Banco Comercial Portugues – have tended to concentrate on life. Older ones – like Fidelidade, Portugal's second largest insurer now owned by the giant Caixa Geral - are scurrying to form distribution links with the banks. This form of selling is gradually replacing the army of agents who act as intermediaries.

Mirroring the success of its parent company in the banking sector, Ocidental has come from nowhere to be the 14th largest insurance company. Seguros predicts its premium income will grow by 80 per cent this year, an indication of the vigour of the life business.

The company would occupy a higher position still if motor insurance were stripped out. This accounts for a substantial proportion of the premium six insurers but, according to Mr Joso Talone income generated by the top Mr Joao Talone, president of Ocidental, losses in this seg-ment of the market amounted to Es7bn last year.

to Es7bn last year.

The total profit across the sector was Es6-7bn last year.

Talone says that two thirds of this is not trading profit—

"the only thing the big companies can do is cut their rates to keep market share," he companies "They have made most ments. "They have made most of their money by selling prop-erties in the middle of a bull or by selling shares bought long before the 1974 revolution. "All the big insurers are

engaged in window-dressing to make themselves look good for privatisation," he says.

"The state sector companies are hampered from doing deals tion channel for life products," he continues. "Nobody knows who's going to end-up owning whom. We are selling well into our own bank because we are part of the same culture. They have been forced to compete very strongly without having the tools to take the necessary strategic decisions.

Mr Jose Antonio Santos Tex-eira, president of Imperio, the largest insurance company in Portugal and yet to be privatised, rejects any suggestion that the state sector is grossly

He admits, however, that the company is handicapped by its public-sector status ublic-sector status. Mr Texeira would like to

have a bank and a large foreign insurance company as shareholders. Rivals comme that the problem with the pri-vatisation programme is that the state will demand a high price for its insurance assets, but will want control to remain in the hands of the Portuguese. The trouble may be that only outsiders will be willing to pay

Foreign interest in the sector is high: Andersen calculated that Portuguese companies will have less than 60 per cent of the market by 1995. The main foreign entrants are from France and Spain, and they have considerably greater financial muscle. Ruefully, Mr Texeira says that his company's capital amounts to £2.5m compared to the 21bn of UAP. the French group which has acquired Garantia, Portugal's seventh largest insurance com-pany, and which is poised to take control of Alianca, another state-owned insurer when its privatisation is finally

David Waller





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Peter Wise investigates foreign investment and finds a . . .

Picture of satisfaction

most expensive and prestigious in the world, are made in Germany. But an important part of their manufacture, together with the full production of high-precision binoculars and microscopes, is carried out near the town of Vila Nova de Familicao in north-west Portu-

Here, 500 employees match their German colleagues for quality and are only margin-ally behind in productivity, according to Mr Wolfgang Koch, the group's general man-ager for Portugal. The only difference between the Portuguese plant and Leica's two factories near Frankfurt is that labour costs are 65 per cent

"We would not be in the market at all if it were not for our lower wage costs in Portu-gal," says Mr Koch. Leica, now owned by Cambridge Instru-ments of the UK and Switzerland's Wild group, set up a subsidiary in Portugal in 1973 when the pressure of Japanese pany to choose between cuting costs or closing down. The Portuguese operation.

Leica Aparelhos Optica de Precisao, has since increased its workforce more than twentyfold, investing a total of Es1.5bn (\$10.6m) over the past

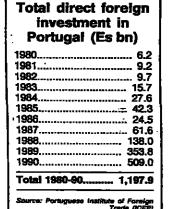
Two new factory units were recently opened, raising the value of the company's exports to Es3bn a year. Management is now considering negotiating a new investment contract with the Portuguese Institute of Foreign Trade (ICEP).

Leica's success in Portugal bears out the assertion of Mr Antonio Neto da Silva, the secretary of state for foreign trade, that, "allied to efficient management and modern technology, Portuguese workers achieve productivity and quality levels to equal the best in

Twelve German technicians work at the Vila Nova de Familicao plant. But the head of the quality department is Por-

They like to say he is more German than the Germans, says Mr Koch. Local women who make up 60 per cent of the workforce, show particular prowess at close precision

The calibre of our workers; their willingness to learn skills and work hard is one of the most satisfying aspects of



Sources of foreign investment (percentage of total foreign investment, 1980-89)

France. Sweden Netherlands... ... 1.1

being in Portugal," says Mr

Low costs and high productivity such as those enjoyed by eign investors to Portugal in record numbers. Direct foreign investment grew to Es509bn (\$3.6bn) in 1990, a 46-per cent increase on the previous year the increase in dollar terms was over 60 per cent. Most investment originated from Britain, followed by France and Spain. German invest-ment, in fourth place, increased more than fourfold

Foreign companies already established in Portugal accounted for 56 per cent of the total through capital increases

Heavyweight projects such as the Es27.5bn investment by Continental of Germany in a tyre manufacturing joint ven-ture made the headlines. But only two out of a total of 3,500 foreign investment projects went above Es10bn.

sized foreign investments that are providing our industrial fabric with density and critical mass," says Mr Miguel Athayde Marques, vice-president of ICEP.
Besides illustrating the com-

parative advantages that are pulling foreign investors to Portugal, the Leica subsidiary is also a prime example of why the government is so keen to The high-tech, high val-

ue-added plant is set in the Vale do Ave, the most depressed industrial region in the country, where the govern-ment estimates 45,000 jobs could be lost by 2000 as textile. clothing and footwear companies – Portugal's principal sources of export revenue fall victim to increased compe-

'Investment in new areas with a high technological component is vital for the structural adjustment of Portuguese industry and the efficient reallocation of manpower and resources," says Mr Athayde Marques.

The sectors pinpointed by the government as having the most potential for investment are information technology and electronics, biotechnology and pharmaceuticals, technical ceramics, special purpose plastics, medical equipment, agribusiness, cars and components, equipment and machinery, sporting goods and tourism. Foreign investment in such areas has been highly beneficial to the Portuguese economy

over the past six years. Exports

are becoming increasingly less dependent on the labour-inten-sive, low value-added sectors of clothing and shoes and moving into more technologically

sophisticated areas. Foreign manufacturers are forming upstream links with local suppliers. Their demanding requirements are helping to promote the upgrading of Portuguese companies, forcing them to improve their performance in terms of specifica-tions, quality, and delivery

mes. The benefits are also being felt in Portugal's backward agricultural sector where productivity is less than a third of average EC levels. The Plein Sud group of the French entrepreneur Mr Thierry Rousse recently launched the first stage of a planned \$100m investment in two large farms to produce off-season fruit and vegetables in the southern Alentejo, and plants and flow-ers in northern Portugal. Both farms use modern production and management techniques that contrast dramatically with traditional methods.

The Lisbon government's eagerness to capture foreign investment is backed by attractive investment incentives for projects considered to have a positive structural impact. According to the Institute for the Support of Small and Medi-um-sized Industries (IAPMEI), foreign investors account for 16 per cent of the Es149bn that has been awarded in investt incentives since two ECfunded grant schemes were launched at the beginning of

That percentage is likely to undergo a substantial increase if a plan by Ford Europe and Volkwagen to invest more than Es300bn to manufacture a new multipurpose passenger vehicle in Portugal goes ahead. Officials are waiting for Brussels to approve finance for an

SINCE 1984. Portugal's

financial system has been

through more change than any

other sector of the economy.

New private banks and finan-

cial institutions sprung up from nowhere to become lead-

ing players on the domestic

market, offering new services,

using more modern methods.

and bringing fresh ideas to

shake the complacency of the

state-owned and state-run

banking establishment. Dere-

gulation gradually helped open

up markets and the economy

to international market forces. Liberalisation was given a

further push by European Community membership and

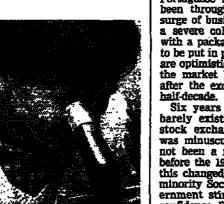
the need to meet requirements for financial services and insti-

tutions. By 1992, Portugal will

have to comply with the bulk

of EC directives on the liberalisation of the financial system

except for short-term capital movements for which it has



incentive package reportedly worth between Esc 100bn and Esc 130bn before finalising the

The Portuguese Confedera tion of Industry complains this will be equal to the amount of incentives awarded to Portu-guese companies over the past three years and has called for more support for local indus-

But government officials say the amount of incentives for been exaggerated. They defend the project, which will be the largest single foreign investment ever made in Portugal not only for the 5,300 jobs it will create directly but for the structural impact it will have on the economy as a whole increasing the value of exports with the planned production of 173.000 vehicles a year, promo ting the growth of supply industries and indirectly creat-

won a reprieve likely to last for

The Banco de Portugal (cen-

tral bank) which for years after

the 1974 revolution had been little more than a conveyor

belt for Finance Ministry edicts

has not escaped the movement

for reform, winning a new.

more independent lease of life.

gramme of important changes

that has already strengthened

its independence and improved

its operations. Mr Jose Alberto

Tavares Moreira, the bank's

three to four years the reform will be completed and the bank

will have radically changed

structures.
"At the end of that period

we'll have a structure com-

posed of six main departments organised on the basis of the essential functions of the bank,

compared with 19 departments

when we started with the

reform, and 12 departments

now," he says. The six depart-ments will be responsible sepa-rately for economic research,

the money markets, foreign

exchange operations, banking supervision, staff and adminis-

tration, and issuing currency. Each one will have its own

The streamlining of func-tions will be accompanied with

a streamlining of staff which will be reduced from about

It is now undergoing a pro-

another two to three years.

SINCE THE mid-eighties, the Portuguese stock market has been through an exaggerated surge of business and endured

market was born.

"The market took off in ria. In other countries, the bull market took 10 years to build up. Here the whole process was concertinated into just six

time for Portugal to enjoy a bull market, it has taken correspondingly longer for the market to revive after the crash. There have been two serious attempts at rallies, but the index ended last year at 2143.4, a fall of 34.6 per cent in local currency terms over 1990 and still well below its level at the

3.000 at the start of the reform

almost two years ago (now

2,300) to about 2,000 employees.

the bank are the reforms out-

lined in a draft law approved

last autumn enhancing its

autonomy. While Portugal's central bank will not be as

independent as Germany's Bundasbank, it will be more independent than the Bank of

England or the Banque de

In the past, the central bank was independent only in the-ory. It was described as the

country's issuing bank, respon-sible for foreign exchange regu-

lations and currency manage-

ment, as well as for the

orientation and control of mon-

etary policy, but with an

important proviso: that it

would carry out all these func-tions "within the guidelines"

established by the Finance Ministry. And while it could

give its opinion on monetary

and fiscal policy, in practice the last word always belonged to the government. The bank

was essentially an administrative, and at times, political,

the central bank acted as a

gendarme to ensure that the minutiae of economic and mon-

etary policy dictated by the Finance Ministry in great

instrument of government. In what was a highly regu-lated financial environment

But at least as important for

Patrick Blum discusses the central bank's changing role

Independence strengthened

a severe collapse. Only now, with a package of reforms due to be put in place this summer, are optimistic observers saying the market has calmed down after the excesses of the past

Six years ago, the market barely existed. There was a stock exchange, but volume was minuscule and there had not been a rights issue since before the 1974 revolution. All this changed in 1985-1986. The minority Social Democrat government stimulated business confidence. Portugal joined the European Community. A buil

1985-86 and carried on rising until October 1987," says Joaq Rendeiro, managing director of securities house. "In the run-up to the election in June 87 there was incredible eupho-

From 1983 to 1987, the number of quoted companies rose from 41 to 176; the value of share transactions rose from Esc 5.7bn (\$39m) to Esc 282.4bn. The total value of markets soared. The Banco Totta e Acores (BTA) index began 1987 at 1,220, rose to a peak of 6,812 just before the crash, but fell back to 2,990 by the end of the year.

If it took a relatively short

"After the crash Portuguese investors sold in panic like anywhere else," says Mr Rendeiro, "but all the weaknesses of a fragile infrastructure came to the forefront dramatically.

ally turnover, but the market's recovery this year is thought to be driven by

David Waller on the stock market's development

Fragile but promising

There was a huge shift in sentiment and for more than a year afterwards the market continued to sink downwards as investors tried to come to grips with the mess left by October 1987."

The Lisbon Boise in Prace do Cemercio: foreign inv

stors awash with cash because of the delayed privat

The post-crash problems have been psychological and structural. Psychological, because local investors had their fingers severely burned in October 1987 and thereafter proved reluctant to get into the market. Structural, because of an antiquated settlement system and a lack of liquidity in the majority of stocks, which has discouraged all but the

Although the number of companies quoted on the exchanges of Lisbon and Oporto rose from 135 to 182 bulk of activity is concentrated on a dozen liquid stocks. Just 10 stocks - including Soporcel (a pulp and paper company), Sonae (an industrial holdings company), Radio Marconi Por-

Under its new statutes, it

has won far greater freedom of

action and is required to fulfil

its functions "taking into account" government policies.

monetary and exchange rate policy and "keeps a watch over

the stability of the financia

system". It advises on mone-tary and financial policy, and

is responsible for supervising

the monetary, financial and

It is also no longer obliged

the government. It was not

uncommon for a government suddenly pressed for cash to ask the bank for the money.

This was a convenient way for

governments to hide part of

their indebtedness and raise

money cheaply since interest rates were set administra-

tively. The bank could argue, but in practice it could not

reject a government request

have also been strengthened

and given greater responsibili-ties. In the past the bank's only

authority was its collective management board of which the governor was an adminis-

trative chairman, but under the new statutes the gover-

nor's role and authority have

The bank's management and the position of its governor

to lend funds to

foreign exchange markets.

tuguesa (telecommunications), Banco Comercial Portugues, and Banco Portugues de Inves-timento accounted for 52 per cent of the market's capitalisation at the end of 1990, while trading in these shares invari-ably accounts for most of the

average daily \$5.56m turnover. In January this year, the government finally approved a package of reforms meant to remedy some of the structural defects of the market. The main features are:

■ The setting up of a Securities & Exchange Commission as the main regulatory and

account for much of the market's

supervisory body:

The privatisation and unification of the markets in Lisbon and Oporto. The two trading floors will remain but in future each will be managed by an association of local brokers and dealers who will be responsible for setting up an investors' compensation scheme

The creation of a central Continued on facing page:

Richard Ellis

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EUROPEAN FINANCE AND INVESTMENT

Tist of APRIL 3 log

■ The implementation of a new paperless trading system, at first only for the blue-chips. eventually for the market as a whole, giving investors continnous stock prices; and

rules and penalties on insider dealing, takeovers and mergers; share manipulation and disclosure rules.

The package will be implemented in June at the earliest, preliminary reforms were ntroduced earlier this year (when the two exchanges introduced a second daily price-fix-ing for the most liquid stocks) and at the beginning of this month when a new partially computerised trading system was introduced in Lisbon.

"The initial impact of the stock market reform is difficult to asses," says Mari Vargas, a London-based analyst at BNP Securities, "but it should bring greater efficiency and liquidity to stock exchange transactions for the benefit of investors.

Costs are also expected to go down ... and the major for-eign institutional investors, including the Americans, that have been reluctant to face the difficult trading conditions should reconsider their investment decisions."

Foreign investors, while accounting for much of the turnover, and owning 15 per cent of the market by market capitalisation (at the end of

WHAT happens when a

17.70 mark

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The state of the s

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2000

Continued from previous page: September 1990), were net sell-depository and settlement sys-

The market's recovery in the first months of this year - up from 1986 at its lowest point in mid-January to 2515 - is thought to be driven by domestic investors awash with cash because of the delayed privati-

sation programme.

A revival of this programme in the months ahead will soak up that demand and is likely to tempt back foreign investors who have traditionally been keen on new issues. As the early privatisations

will be banks and insurance companies, the market's heavy skewing towards financial services will be exacerbated: large sectors of the economy such as property and tourism are der-represented, while banks alone accounted for 39 per cent of the market's capitalisation at the end of last year.

The Portuguese market is the EC's smallest stock market and last year was the worst performer. But it gives inves-tors the opportunity to invest in a small but dynamic econ-

omy.
Thus, if the market is still fragile, it certainly has poten-tial - "for the first time in five

years, stocks and p/e ratios are in line with international stan-dards," says Mr Rendeiro. "Prices react to events and information in a normal way.

For the first time we begin to have a real market."

Stock market reforms | Patrick Blum looks at the controversial privatisation programme

Quest for the right balance

FEW issues have been quite as controversial as the government's privatisation pro-gramme in spite of a broad

consensus in favour of selling companies nationalised in the Though there has been some opposition to the privatisations from groups of former owners who are mostly seeking better compensation, and, on the left,

from those who want to preserve a large state sector, in practice the government has had a free hand. This has allowed it to establish what must be the largest privatisation programme in Europe outside the former

communist countries.

Plans are to sell dozens of leading companies including banks, insurance companies. manufacturers of a wide range of products from cement to beer, chemicals to pulp and paper, steel and oil distribution companies, leading utilities including telecommunications, the tobacco monopoly, the state airline, shipping and bus companies, to the last state-

The scale of the programme has not really been at issue, rather criticism has focused on the way it has been undertaken. The government has been accused of selling compa-

even if prices were lower. One suggestion is that potential nies on the cheap to foreigners. of inflating share prices to maximise revenues, of distort-ing the market by imposing Portuguese investors should be given preferential credit terms rigid limits on the purchase of to help them buy into compaprivatised shares by the same foreigners, of failing to protect adequately Portuguese interests, of going about it in a halfhearted way, and of failing to

To counter the criticism that it is selling off the family silver to foreigners, the government has imposed rigid limits on the amount of privatised shares use privatisations as a means of restructuring the economy. foreigners can buy, but this has proved ineffective. Foreign companies have It is an illustration of the difficulty of the task that in

Criticism has focused on the way that privatisation has been undertaken

one way or another all of these conflicting criticisms can be held to be partially true. Local business groups have been most vocal in attacking the

government for failing to defend Portuguese interests. They argue that the method of selling companies on the stock market combined with the high price set for privatised shares effectively rules out a greater role by Portuguese investors who do not have the financial clout of large foreign

The problem is that there are too few large Portuguese groups able to absorb the vol-ume of privatisations planned managed either directly or indirectly through local alliances to win key if not major-

to distort the process, make it less transparent, and push prices up further.

Most critics believe the government's main objective has been to maximise revenues from the sales, which last year alone brought it revenues of more than Es140bn (\$970m) in

ity stakes in most of the com-

What the limits have done is

six operations. That figure is likely to look small if this year's programme which includes selling several banks and some leading com-

tain now. The programme has unfolded in fits and starts, and has faced repeated delays. These have been exacerbated by the Gulf war, and several privatisations due in the first quarter of the year have yet to

take place.

A general election is due by October at the latest and this will increasingly occupy the minds of ministers.

Perhaps the most serious charge is that not enough thought has been given to using the privatisation process to restructure important parts of the economy. The government's answer is that by privatising public com-

panies it is doing precisely that and strengthening the market conomy. Critics are not convinced -

privatisations in the financial sector, for example, are decided economist. There is no overall strategy,

but what we need is an active

quickly the economy for the single (European) market. "The government should intervene selectively to help the formation of Portuguese groups, otherwise we'll miss a unique opportunity."



Mr 'Miguel Beleza, Portugal's finance minister: he prefers caution to speed in the privatisation programme, but insists that the programme is nevertheless on target. Most critics believe the government's main objective has been to maximise revenues from company sales, which last year alone brought it revenues of more than Es140bn (\$970m) in six operations.

Case study: Banco Totta & Açores

Step by step to private ownership

state-owned bank becomes private, and how does it prepare for the change? For Mr Alipio Barrosa Pereira Dias, president of the Banco Totta & Açores (BTA), the first Portuguese bank to be privatised, save for about 16 per cent remaining in state hands, privatisation was a crucial factor for the bank's future development not just because of the change in ownership, but because it enabled the bank to do several things that it could not do

The privatisation itself took place in three separate stages: an initial floation on the stock exchange of 49 per cent of the bank's share capital in July 1989, followed just over a year later with the sale of anothger 31 per cent stake.

A capital increase last ber, finally brought the private shareholding in the bank to above 84 per cent.

Despite government limits on the purchase of privatised shares by foreigners, Banesto, the Spanish hanking group, managed to build up directly and indirectly a controlling interest in the bank. Today, Banesto holds

directly around 10 per cent of the shares, while Valores Ibericos – a joint venture with a Portuguese partner in which it holds 49 per cent, has another 28 per cent. Other shareholders are small and in practice Banesto has effective control of the bank From the very begining, the privatisation had a dramatic

impact on the bank. First and foremost, it allowed it to strengthen its

Like all Portuguese state-owned banks that were nationalised in 1975, BTA had seen its need for fresh capital frustrated by the unwillingness of successive governments to provide new

capital base and grow.

A weak capital base was a common problem for the nationalised banks. It was a double handicap at a time when a system of credit ceilings - established in the late 1970s and only recently abandoned - limited the amount a bank was allowed to lend on the basis of its canitalisation.

With expansion thus constrained, BTA had to face

increasingly tough competition from new foreign and private Portuguese banks allowed to operate once more after an initial liberalisation

of the banking system in 1984. By 1989, the need for fresh capital had become urgent if the bank was going to remain competitive and grow. Privatisation came just at the

right moment. It became possible to raise the bank's capital and with more capital we could expand our activities. This was the

orivatisation," Mr Dias says. Paradoxically, the credit ceilings now started to work in BTA's favour. The state-owned banks which were

most important effect of

denied new injections of funds from the government could only strengthen their own capital base either by issuing limited amounts of

participation certificates, or by ploughing back into the bank what profits the state as main shareholder would decide to leave them.

This clearly hampered their development, which was already more difficult becaus of their heavy burden oif bad debts, inefficient structures and overstaffing.

The second most important effect was to give the bank a new sense of direction. Mr Dias who had joined BTA in 1988, prepared a new strategic plan for the bank

aimed at modernising operations, improving research and internal controls, increasing the number of branches, and making more efficient use of human

Staff had to be reduced and productivity raised, older employees were retired early or retrained.

Whereas in December 1987 the bank had on average 37 employees per branch, this

is now down to 23 employees. The total number of employees has been reduced from about 4,500 in 1988 to 4,200 today in spite of an increase in the number of branches from 127 in February

Mr Dias says he expects to open up another 10 to 15 branches by the end of this year. Productivity has risen dramatically, helped by the introduction of new computing and software systems.

Privatisation also meant changes in the image of the bank and in the attitude of its employees.
"Sometimes it was simple

things, like employees coming to work in casual clothes without a tie. We had to explain to them this gave the bank a bad image. But you couldn't legislate this, you had to win their cooperation

he says. Another problem was the length of the privatisation

process. For a period of months, the future of the bank and of its shareholding structure remained uncertain. This made it especially important for the bank's management to maintain the full confidence of both the financial authorities and of its staff.

"It was crucial during the privatisation to make people understand the need for the process," Mr Dias says. Consultations and

persuasion created a better climate than edicts from above and sackings, though some lay-offs were inevitable But over a year and a half after the initial

part-privatisation, Mr Dias feels he has overcome the biggest obstacles - "now we compete on equal terms with the private banks. By next year we'll be in a position to

Patrick Blum



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Patrick Blum discusses Madeira as an offshore business centre

Slow but steady take-off

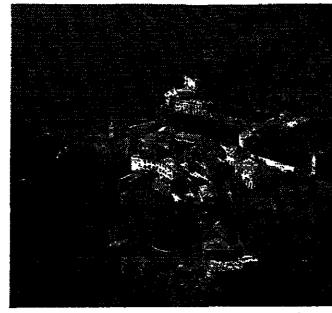
IT HAS not exactly been plain sailing for Madeira's offshore business centre. Establishing a new legal framework to cover financial institutions, manufacturers in the free trade zone and a new international shipping register has taken up more time and encountered more bureaucratic obstacles than expected. Nevertheless, Madeira is slowly taking off as a viable alternative or addition to existing offshore centres in Europe and elsewhere.

years of other centres, their own development was not any faster than ours. Early days are always difficult," says Mr Francisco Costa, chairman of the Madeira Development Company (SDM), which is responsi-ble for developing the island's offshore activities.

In spite of initial problems. Madeira already has attracted a good number of business including 13 banks, 231 service and trading companies, and 10 manufacturing companies. Another five banks have applied to set up an offshore branch, 10 more service companies have applied for a licence, and three more manufacturing authorisation to operate in the free trade zone. Response to the shipping register has been slower with only five vessels registered so far

initially, only branches of banks and investment companies could operate in the offshore centre. This was later extended to all financial institutions. Now new laws are being prepared to allow funds to be domiciled locally and to enable the local incorporation of full banks and insurance companies as opposed to only branches. Mr Costa expects

these to be in place this year. The shipping register has posed bigger problems. Until now, all crews for Portuguese registered ships had to be 100 per cent Portuguese, a stan-dard requirement in Portugal This is in the process of being changed so that crews will only need to be 50 per cent from the European Community. Restrictive and uncompetitive Portuguese mortgage reg-ulations were another problem, and this is also being changed the law under which they will operate when registering a



phase of development have been completed: the land lev-elled, roads and infrastructures

including water supplies and

telecommunications installed

Work on a new deep sea port

directly serving the site began in October 1990 and is due to

be completed by the middle of

next year. The island's main

airport will be expanded to

enable it to receive bigger air-

Officials say rents are com-petitive at \$13.50 per square metre of land per year for a

minimum of five years for com-panies building their own

installations, and \$40 per square metre for ready-made

Offshore financial business

is centred in Funchal. So far

all but one of the bank branches established are Portu-

guese. The exception is Lloyds

Guernsey, to be joined soon by Banque Franco Portugaise of France. Mr Costa believes this

is to be expected of the centre's

development. "It is important

to have Portuguese banks. It

has a demonstration effect

showing Portuguese banks are

confident about the centre's

The banks do any type of business from taking deposits

- there is strong competition

Bank Fund Management of

craft and to improve freight

Madeira: attracted a good number of businesses

ship. New legislation will also allow private yachts to be registered.

Mr Carlos Sousa, general manager of Steermar, a ship management services company, says he expects to regis-ter 80-100 ships in the first year after the new law is approved. Foreign shippers are waiting for the change. We've had many enquiries, especially from Germany," he says. The free trade zone has had

more success with a mix of companies from as far apart as Brazil (plastics), Ireland (gold and jewellery), Lebanon (tex-tiles and marble), Liechtenstein (precision optical instru-ments), Hong Kong (garments), and Portugal (construction materials, tobacco, electronics. food, and chemicals). Only a handful have started work, the others are building their own

installing machinery.

The free zone is on a 120hectare site on Madeira's eastern coast some 8km from the airport and 30km from Funchal, the island's main town Next to the smaller town of Canical, it is easily accessible though the roads and a tunnel leading to the site are having to be widened and upgraded to cope with the heavier traffic. About half the initial 40 hectares to be prepared in a first

for remittances of emigrant Portuguese workers and the savings of the wider Portuguese community around the world - to trade financing, fund management and granting credit.
There are considerable

attractions for investors and companies. Incentives include full tax holidays until 2011 for all financial institutions, trading and manufacturing companies setting up offshore or in the free zone. This allows banks, for example, to offer better conditions to their customers at no extra costs.

Foreign exchange rules have been liberalised. However, this has caused some concern to the financial authorities in Lisbon. Accordingly, the central bank has asked for clarification on regulations covering the operations of Portuguese non-banking institutions which it argues should be treated under the same tax regime as their mother companies and not as foreign companies. The central bank would like all non-financial Portuguese com-panies wishing to operate offshore to first seek the bank's approval. "There's a hole in the legislation on this," a bank official says.

Several Portuguese or Madeiran companies, such as Com-panhia Insular de Moinhos (CIM), a biscuit and pasta manufacturer, are moving into the free zone to take advantage of the favourable tax regime. CIM is also using the opportunity to restructure and modernise its

Requests for information have been "pouring in", according to Mr Joao Luis Dias, director of Dixcart Management (Madeira), a subsidiary of the Dixcart group. He says establishment procedures have greatly improved, making it possible to incorporate a company within a little more than two weeks.

Office space has been scarce, but supply is improving. Dix-cart recently moved into new premises while The New Madeira Investment Servicos, another management company, prepares to make its own move. The original optimism appears unchanged. "The centre is well regulated and we keep standards high. I don't have any doubts about the future," Mr Costa says.



Doing business in Portugal

Standards are rising

"PORTUGAL," quipped a Mozambican friend, "is an African country with a European

The remark, neatly turning round a popular saying about Portugal's historic links with Africa, has more than a grain of truth in it.

Life in Portugal, especially in the southern half of the country, is tempered by a disinctly non-European nonchalance; spontanelty, a tendency to leave decisions to the last minute and a desire to please, all mixed with a strong streak of fatalism, seem designed to test the patience of visitors. If you are in a hurry, Portugal is not the place for you.

If you add to that problems

that result from an as yet under-developed infrastructure, poor though improving telecommunications, and the dead weight of a massive state bureaucracy with its over-abundant "red tape," it is easy to see why business people occasionally despair they will ever get anything done.

Portugal's ties with its former colonies in Asia, with Portuguese-speaking Brazil and more especially with Africa, are still much in evidence.

Verde, Angola and Mozambi-que make up a good proportion of workers on building sites in and around Lisbon.

In late afternoons, the north-ern side of the Rossio, the capital's main square, is animated with groups of immigrants who have made it a meeting point to exchange gossip or imply while away the hours. But for all these vivid

minders of Portugal's colonial past. Lisbon has been rediscovering Europe with an official enthusiasm matched only by generous helpings of EC membership is assisting Portugal to overcome decades of neglect and changing atti-tudes. Foreign investment has poured into the country help-

and infrastructures. The pressure of EC integration is forcing the pace of

The range and quality of goods and services is improving, new businesses are bringing more ideas and promoting the cause of efficiency. Standards of living have risen, though wide disparities of wealth are still noticeable.

Wages are the lowest in Immigrants from Cape Europe, and this has been an

important attraction for foreign investors.

While the public sector is

plagued with poor industrial relations and strikes from gov-ernment bureaucrats to policemen, teachers, doctors, and museum attendants, the private sector is practically free of Managers of multinational

companies say that while local workers generally have lower initial skills, they respond well to training and can achieve levels of proficiency that can compete with levels elsewhere. Housing is often sub-stan-

dard with poor safety and hygiene. There is a serious housing shortage, but foreign executives can find better quality accommodation in Lisbon or Oporto though at prices closer to those in other European cities.

Office space is a problem and prices are high though after 1992 they should stabilise as more commercial property comes on the market Bureaucracy and red tape

are infuriating, though the right connections will usually help speed matters, but not Brush a local government

official the wrong way, and the



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water link that you so desper-ately need will be dammed at source by forms and unanswered letters. Construction work is slow and requires constant supervision; delays are

Appointments will often be changed, sometimes at the very last minute, and few will actually start on time playing havoc with business schedules. Minor officials can be wrongheaded and infused with an exaggerated sense of their own importance. Service, especially in the state sector, is bad reflecting the fact that many state employees are poorly paid and trained. Text drivers are probably among the rudest in the world and you will be lucky to get a grunt back as an acknowledgement after you mention your destination.

Finding a garage to park your car is difficult and expensive, but it could save having to pay for broken windows and stolen car radios if you leave your car in the street, even if

If you are planning to live outside Lisbon and drive in travel before or after the rush hour to avoid long jams. And always drive defansively— Portuguese drivers are among the worst and probably the most dangerous in Europe, giv-ing Portugal the highest proportion of fatal road accidents in the Community. Insurance premiums are high.
But for all these drawbacks,

there are big compensations Apart from four months between December and April for days and temperatures are low, the climate is mild, the summers long and hot, and the beach is never very far away.

At the height of the tourist son, it is best to avoid the main resorts along the

Algarve, but there are still many places left to visit along the coast and in the interior. From the green hills of the Minho where vinho cerds (red and white) is produced in the north, along the Douro river and valley that runs downhill from Spain in the east through stunning landscape to Oporto, through the Sarra de Betrale

through the Serra da Estrela mountains in the centre, and south, across the Alentejo, with its miles of practically deserted beaches and torrid interior landscape, there is plenty to delight and discover

Portugal has much to offer those who like to live outdoors. There is a wide choice of sea food and some good wines, and once off-duty a temporary real-dent can enjoy a pleasant and relaxed lifestyle.

Patrick Blum

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